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VEGETABLE • FLOWER • LAWN • FIELD SEEDS

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LIEFGREEN SEED CO.

339 W. VAN BUREN
PHOENIX, ARIZONA

1938

Your Arizona Planting Guide

FERTILIZERS • GARDEN TOOLS • LAWN SUPPLIES • INSECTICIDES

GOOD SEEDS are the First Essential of Successful Growing

Your Purchase of Seeds is a Matter of Confidence

LIEFGREEN SEED COMPANY, INC., sell only seed of Superior Quality.

Your greatest assurance of crop success is our Tested Reliable Seed.

LIEFGREEN SEED CO. 339 W. VAN BUREN PHOENIX, ARIZONA

We purchase seed only from growers who have proven their reliability through our years of experience in dealing with them. New strains and types are all tried out in this climate before they are offered to our descriminating trade. All seed offered in this catalog have been tested and proven as the best types and strains for successful planting in this and similar climates.

No matter how fertile your soil, nor how hard or carefully you cultivate. Your efforts will be wasted unless you have dependable seeds, and the correct cultural information for planting in this climate.

THE LIEFGREEN SEED COMPANY is a corporation, under the management of MR. A. W. (BERT) LIEFGREEN, who is well known as an expert seed man throughout the Southwest. He has had long experience in the growing and retailing of flower, vegetable and field seeds, bulbs and nursery stock, as well as in general horticultural work. TWENTY-TWO YEARS spent right here in the Salt River Valley, particularly fits him as an authority on growing conditions of the great Southwest districts, where growing is dependent on irrigation. His thorough and practical experience gives him a full understanding of the problems of gardening, an appreciation of your work and a desire to be of service to you. He will be pleased, at all times, to advise with you on your planting problems.

REMEMBER THAT IT IS OUR INTENTION TO SELL RESULTS — not just seeds, and that our business is built on this cardinal principle.

LIEFGREEN SEED COMPANY, INC.

HOW TO ORDER BY MAIL

Your Name and Address— Be sure that your name and address are written very plainly on each order.

It Matters Not How Small Your Order nor what you may want in the seed line, we shall be glad to hear from you even for one packet; it will have our best attention. Our ambition is to serve you in a manner that will make you one of our satisfied customers.

Counter Customers— We suggest to those who purchase in person at our store the advantage of having their lists made out before they call. They may be left and called for later, taken at once, or shipped. In any case it is a great saving of time to the purchaser. The list should have full name and address written on it so that our catalog may be mailed to the purchaser as issued. We also urge early purchases.

Error in the Filling of Orders— We use the greatest care in filling, checking and packing orders. Yet should anything be omitted we will promptly forward when advised. Keep a duplicate copy of your order for comparison.

Remittances may be made by Express Money Order, P. O. Money Order or Bank Draft; if stamps or cash, send in Registered Letter. We must decline sending goods C. O. D. unless 25 per cent of their value accompanies the order.

Accounts— Parties having no account with us—who order goods without remittance—must furnish satisfactory reference.

We Carry Only One Grade of Seed— That is the best procurable. We fill all of our own seed packets from fresh seed of the highest purity and germination. Follow our Planting Guide and Cultural Directions as given in our catalog.

Market Gardeners should avail themselves of Market Gardeners' privileges and write for special quantity prices.

Guarantee— Complaints made that seeds are not good could quite as often be attributed to other causes as to the quality of the seeds. There are hundreds of contingents constantly arising to prevent the best of seeds giving satisfaction, such as sowing too deep or too shallow, in too wet or dry soil, insects of all kinds destroying the plants as soon as they appear, wet weather, cold weather, frosts, chemical changes in the seeds induced by temperature, etc. For the above reasons it is impractical to guarantee seeds under all circumstances, yet at the same time, we exercise the greatest care in seeing that our seeds are fresh and true to name, knowing that your success is ours, and that a satisfied customer is our best advertisement. Therefore we do not, in any way, express or implied, guarantee the description, quality, productiveness or any other matter of any seeds sold by us, and we will not in any way be responsible for the crop. If the purchaser does not accept these goods on the above terms, no sale is made thereof, and he must return them at once and money will be refunded.

FOR THE CONVENIENCE OF OUR OUT OF TOWN CUSTOMERS, WE LIST MANY ITEMS AT POSTPAID PRICES.

FOR ITEMS NOT LISTED POSTPAID, THE CUSTOMER MAY FIGURE THE RATE FROM CHART SHOWN BELOW

DOMESTIC PARCEL POST RATES

On Seeds, Plants, Bulbs, Roots, Books, Tools, etc., within the U. S. and Possessions. Weight Limit 70 lbs. Local Delivery 1st pound 7c; each additional 2 pounds 1c.	First Pound or Fraction	Additional Pound or Fraction
First Zone, Phoenix and within 50 miles of Phoenix	8c	1c
Second Zone, within 50 to 150 " " "	8c	1c
Third Zone, " 150 to 300 " " "	9c	2c
Fourth Zone, " 300 to 600 " " "	10c	4c
Fifth Zone, " 600 to 1,000 " " "	11c	5c
Sixth Zone, " 1,000 to 1,400 " " "	12c	7c
Seventh Zone, " 1,400 to 1,800 " " "	14c	9c
Eighth Zone, " all over 1,800 " " "	15c	11c

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GROW CRISP, TENDER, TASTY VEGETABLES IN YOUR OWN GARDEN WITH

Liefgreen's Superior Vegetable Seeds

BURPEE'S STRINGLESS GREEN POD

The Improved Type—Tender and Crisp

Beans—Frijoles

ASK FOR QUANTITY PRICE

We Can Always Supply Any Quantity for Large Plantings

CULTURE—For a Spring crop plant in February, March and April, according to the location. For Fall crop, plant in August and early September. Beans enjoy a well-drained loamy soil. Irrigate Beans only when needed and do not flood the vines. Cultivate frequently and before the soil has a chance to crust. Plant Bush Beans about three-inches apart in three-foot rows at the rate of about one pound to 100 feet of row and from 75 to 100 pounds per acre. Plant Pole Beans at the rate of one pound to 200 feet of row and about 40 pounds per acre.

PRICES ON BEAN SEED—Unless otherwise stated prices are uniformly as follows: Pkt., 5c; ½ lb., 20c; 1 lb., 30c; 5 lbs., $1.25; 10 lbs., $2.25; postpaid. F.O.B. Phoenix or counter prices as follows: Pkt., 5c; ½ lb., 15c; 1 lb., 25c; 5 lbs., $1.00 10 lbs., $1.80.

Beans—Dwarf or Bush, Green Pod

FULL MEASURE—This excellent variety is fast becoming popular with our gardeners. Pods are somewhat like stringless Green Pod but longer and more slender, about 5 inches long, of splendid quality and entirely stringless.

BURPEE'S STRINGLESS GREEN POD (Improved) — This stringless green pod bean is one of the most popular beans in America. In earliness it is in the lead, in quality it is unexcelled, and as a cropper it is unrivaled. The straight, fleshy, round, thick pods are as stringless as the name implies.

Beans—Bush, Wax Pod

IMPROVED BLACK WAX—Round podded. A beautiful bright yellow color, very early and continues long in bearing. Very productive.

IMPROVED GOLDEN WAX—This bean is a distinct improvement on the old Golden Wax. It is a stronger grower, more prolific and not as subject to disease. A popular variety for market or garden use.

Pole Beans

KENTUCKY WONDER, Brown Seeded—Very early and enormously productive. Entirely stringless and very tender. Plant as early in the Spring as possible and again in the latter part of July to the 20th of August.

Asparagus—Esparrago

CULTURE—Soak seeds twenty-four hours before planting. Sow in February and March in rows, covering seed about one inch. The following Winter transplant to rows three or four feet apart and a foot apart in the rows, with at least six inches of covering. Asparagus prefers light loamy soils.

PALMETTO—Light green; very popular. Pkt., 5c; oz., 15c; ¼ lbs., 30c; lb., 80c; 10 lbs., $7.00.

SELECTED MARY WASHINGTON—A new Giant rust-proof variety. Pkt., 5c; oz., 15c; ¼ lbs., 35c; 1 lb., $1.00.

Asparagus Roots

Plant one year old roots and do not cut them back. When planting see that the roots are well spread out so that the soil will touch every part. If this is not done the plant cannot thrive.

MARY WASHINGTON ROOTS — 35c per doz.; 100, $1.50; postpaid.

PALMETTO ROOTS—35c per doz., 100, $1.50; postpaid.

ASK FOR QUANTITY PRICES

Artichoke—Alcachofa

LARGE GREEN GLOBE—The favorite garden variety. Pkt., 5c; oz., 50c.

Lima Beans

BURPEE'S IMPROVED BUSH LIMA—the earliest maturing of all of the large seeded Limas.

LARGE LIMA — A pole variety, large seeded, bearing usually three to four beans to a pod.

Henderson's Bush

Also called Baby Lima Small White Lima Bean, of excellent flavor and enormously prolific.

FORDHOOK LIMA—A large bush lima.

Table Beets

EARLY WONDER—A very fine market and table beet. This is an early beet with a very small tap root, small top and is of exceptionally fine dark red color. The beets are slightly flattened and mature very evenly. For a table as well as a canning variety we cannot recommend it too highly.

Stock Beets

STOCK BEETS are recognized as a very valuable stock food. The roots when fed to cows will greatly increase the flow of milk and will improve the general condition and health of all animals to which they are fed.

CULTURE — Sow seed one inch deep in well cultivated soil in drilled rows eighteen inches to three feet apart, the distance depending on the method of cultivation. When large enough, thin plants to ten inches apart in the row. About eight pounds is required per acre. As Beets germinate slowly, the seed should be planted in moist soil.

MAMMOTH LONG RED—The roots of this variety grow to a very large size. They are well formed, with flesh of blood red color.

GOLDEN TANKARD — Contains more sugar and less water than any other Mangel. A great favorite with dairymen. Horses relish it.

GIANT HALF SUGAR — A very heavy yielder. White, solid, tender flesh and very sweet. Particularly good for milch cows and for fattening hogs.

SUGAR BEET (White Klein Wanzelben)—This variety is without question the best in cultivation. Not the largest in size but the richest in Saccharine. It will fatten hogs as quickly as grain.

ALL STOCK BEETS PRICED: Pkt., 5c; oz., 10c; lb., 60c; 10 lbs., $5.50; postpaid.

Beet—Betabel o Remolacha

CULTURE—In the warm sections of Arizona Beets may be planted from August 1 until May 1. In the higher altitudes planting may commence as soon in the Spring as weather conditions will allow. One ounce of seed will plant from 50 to 75 feet of row and six to eight pounds are required per acre. Plant in rows of 18 to 24 inches apart and thin to three or four inches in the row. Cover the seed one inch deep and firm the soil after planting. Beets enjoy a light, rich, loamy soil and frequent cultivation is necessary for rapid and tender growth. Ask our advice for the proper fertilizer to use.

PRICES ON TABLE BEET SEED unless noted are uniformly: Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c; 5 lbs., $3.70; 10 lbs., $7.00; postpaid.

DETROIT DARK RED—This is a fine main crop all purpose beet. Especially desirable for the home garden on account of its exquisite quality, being sweet, tender and fine grained. The rich dark red color makes an attractive dish. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.00; 10 lbs., $8.50; postpaid.

CROSBY'S EGYPTIAN—The extra early money maker for market growers. Our Crosby's is a very superior extra early strain of garden beet which has been very carefully selected for type. It excels in handsome form, a good size, small tops, very small tap root, fine quality, and above all, it makes a rapid growth. The flesh is deep red. Ready for use in 45 to 50 days.

EARLY BLOOD TURNIP — Of large growth. Flesh very tender and retains its blood red color when cooked.

Market Gardeners!

Please write us and ask for our Market Garden Prices on larger quantities.

LIEFGREEN'S EARLY WONDER BEET

Plant Liefgreen's Quality Cabbage Seed

Brussels Sprouts

IMPORTED HALF DWARF PARIS MARKET — The culture for Brussels Sprouts is the same as for Cabbage. It is a highly esteemed vegetable. Our strain of seed produces handsome, hard, round sprouts of fine quality. Pkt., 5c; oz., 25c; ¼ lb., 85c; lb., $2.50.

A Beautiful Field of CABBAGE Grown From LIEFGREEN'S SELECT COPENHAGEN MARKET

Broccoli

GREEN SPROUTING ITALIAN — A new member of the Broccoli family to be used in this country. The edible portion differs from other Broccolis in use in that the flower heads are borne on long stems which are cooked and eaten along with the flower and are of a very mild flavor having none of the distinct cabbage flavor so common in this family of plants.

CHRISTMAS CALABRIA—Was first imported from Italy as the best obtainable. Plant and care for as the other Broccolis or Cauliflower. Pkt., 5c; oz., 30c; ¼ lb., 90c; 1 lb., $3.00.

Collards—Col

CULTURE — Similar to Cabbage, but does not produce a head. Used as a pot herb like Kale and also desirable as greens for poultry or rabbits. The same culture is applied as to Cabbage except spacing. Plant 15 inches apart in three-foot rows.

TRUE GEORGIA — A strong growing variety with light green leaves. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

Swiss Chard

FOLIAGE BEET — (LUCULLUS) — Culture, same as Beets. This fine vegetable gives large returns for the little care it requires. The leaves of Swiss Chard are used for greens the same as Spinach or Beet tops. Also used extensively for poultry green. The mild rib is sometimes cooked and served as you would Asparagus. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c; 10 lbs., $5.50.

Chives

The famous Schnittlauch—highly prized for flavor. The seed of this is not easily germinated and it will be necessary, therefore, to plant a fairly good quantity of the seed if many plants are desired. Pkt., 5c; oz., 75c.

Celeriac

OR TURNIP ROOTED CELERY—CULTURE—Nearly the same as Celery. A form of Celery grown for its fleshy roots.

GIANT PRAGUE—Produces large smooth roots with few side roots. Pkt., 5c; oz., 25c; ¼ lb., 85c; 1 lb., $2.50.

Celery—Apio

In Southern Arizona, where we experience hot, dry summers, plant seed in cold frames during the month of May. When the plants are strong enough, plant in rows four feet apart and six inches in the rows. Later the soil should be banked against the plants for bleaching, but this should not be done until a few weeks before harvesting. One ounce of seed will produce about 4,000 plants.

GOLDEN SELF BLANCHING—The best Celery in cultivation. Pkt., 5c; oz., 50c; ¼ lb., $1.65; 1 lb., $5.00.

GIANT PASCAL—One of the most popular sorts for winter use. Pkt., 5c; oz., 35c; ¼ lb., $1.00; 1 lb., $3.00.

Cabbage—Col Repollo

Good seed is of the utmost importance in all crops, and no doubt has a greater effect on the final outcome of the Cabbage crop than any other. Do not take any chances by using poor seed. Seed taken from selected heads grown under proper conditions will repay you many times at harvest for its extra cost. In buying our strains of Cabbage you take the first step in the right direction.

CULTURE—In the warm sections of Arizona, seed should be planted during July and August, in shaded beds, for Fall crop. Also during the Fall and Winter months for Spring harvest. Make high shade with covering of cheesecloth or burlap. Transplant to the field in three foot rows. Small heading varieties should be spaced about twelve inches apart and larger heading varieties eighteen inches apart. The soil should be kept moderately moist and well drained and deep cultivation should be practiced. Six ounces will produce plants for one acre.

GOLDEN ACRE CABBAGE — Selected Danish Import—One of the earliest varieties of cabbage. It is dwarf in habit, resembles the Copenhagen Market Cabbage but smaller heads, averaging 2½ to 3 pounds in weight. Due to its small size it can be planted 12 to 14 inches apart in the row. Our seed is an extra fine strain. Pkt., 5c; oz., 35c; ¼ lb., $1.00; 1 lb., $3.00.

COPENHAGEN MARKET—Our seed of this valuable new early Cabbage comes to us direct from Denmark. Pkt., 5c; oz., 30c; ¼ lb., 80c; 1 lb., $2.50.

EARLY WINNIGSTADT, Imported—One of the best early sorts and an old favorite everywhere. Pkt., 5c; oz., 25c; ¼ lb., 85c; 1 lb., $2.50.

DANISH BALL HEAD or HOLLANDER, Imported—The hardiest round headed Cabbage in cultivation. Pkt., 5c; oz., 25c; ¼ lb., 80c; 1 lb., $2.50.

EARLY JERSEY WAKEFIELD, Imported—Grows a small pointed head like the Winnigstadt. Pkt., 5c; oz., 20c; ¼ lb., 85c; 1 lb., $2.50.

EARLY FLAT DUTCH — Pkt., 5c; oz., 25c; ¼ lb., 65c; 1 lb., $2.50.

RED DUTCH—Heads of deep color and very solid. Excellent for cold slaw and for pickling. Pkt., 5c; oz., 30c; ¼ lb., $1.00; 1 lb., $3.00.

Chinese Cabbage

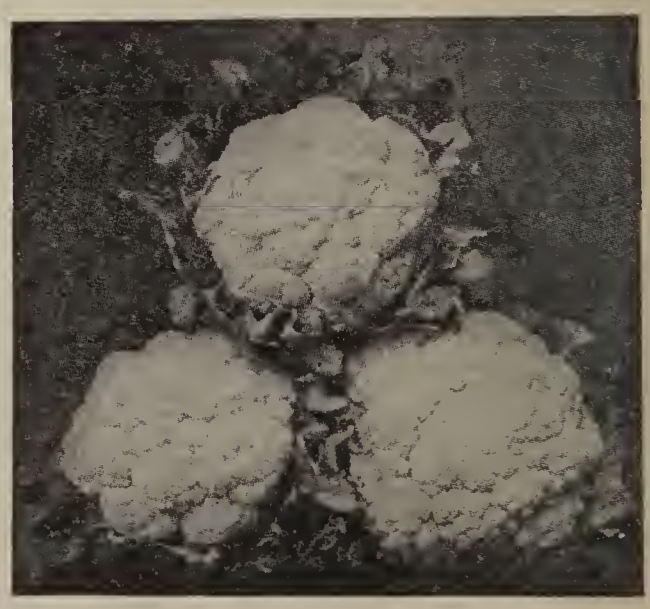
(PE-TSAI) — Grow it the same as you would lettuce. Transplant to 12 inches apart. Our seed is the genuine Chinese imported. Boiled with beef or pork, it is excellent, having a more pleasing flavor than Cabbage. It is tender and crisp, branches perfectly and is equally good raw or cooked. Pkt., 5c; oz., 25c; ¼ lb., 85c; 1 lb., $2.00.

PRICES LISTED ARE POSTPAID
WRITE FOR QUANTITY PRICES

Cauliflower—Coliflor

CULTURE—Prepare the sced bed carefully, using only rich and thoroughly pulverized soil. Keep the plants in a healthy and rapid growing condition. Broadcast the seed in the seed bed. To mature crop for the December market in Southern Arizona, plant seed in July in shaded beds. For a continuous crop throughout the winter season plant seed in July, August, September and October. For Northern Arizona, plant in the Spring. When plants are 40 to 45 days in the beds they are ready for the field. Transplant to 24 inches apart in rows 30 to 36 inches apart. Five ounces of seed will produce plants for one acre.

SELECT EARLY SNOWBALL — The earliest and the surest heading variety on the market. It is snow-white in color with leaves overlapping the flower. The flower is therefore protected from injury, exposure to frost, rain or heat. It is very essential that good Cauliflower be so protected on account of shipping. Our strain of Snowball is grown by one of the most particular Danish growers and imported direct by us from Denmark. We offer no other variety of Cauliflower as we know this strain to be the best and we cannot honestly recommend any other type to equal it. Pkt., 5c; ¼ oz., 85c; oz., $2.50; ¼ lb., $6.25; 1 lb., $25.00.



CAULIFLOWER
Select Early Snowball (Snowdrift)

Plant Liefgreen's Quality Seeds

LIEFGREEN'S SELECT IMPERATOR CARROT

Carrot — Zanahoria

CARROTS are the most wholesome and nutritious vegetable—easily grown and harvested by most everyone. Carrots grow in most any soil, although a sandy loam plentifully enriched with well-rotted manure suits them best. Sow 1 oz. of seed to 100 ft. of row, 3 lbs. to the acre. Plant from September to May in rows 15 to 18 inches apart. Keep clean by frequent hoeing and weeding.

DANVER'S HALF LONG—A half long orange carrot grown largely on account of its great productiveness and adaptability to all classes of soil. It is a favorite with market garden growers and shippers. The tops are medium size. The mature roots are of medium length, six to eight inches long, tapering uniformly to a blunt point. The flesh is deep orange, tender and of good quality. **Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c; 10 lbs., $8.00.**

IMPROVED CHANTENAY—An excellent bunching carrot and early crop variety for market gardeners. A first-class table variety, stump rooted, broad shouldered, about five or six inches long. **Pkt., 5c; oz., 15; ¼ lb., 30c; lb., 90c; 10 lbs., $8.00.**

OX-HEART — Especially desirable for soil so hard and stiff that longer-rooted varieties will not thrive in it. The mature roots are 4½ inches long. **Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c; 10 lbs., $8.00.**

IMPERATOR—One of the best selling varieties. In appearance, it is sleek, seven to eight inches in length with round shoulders, allowing it to bunch well. Its color is a deep orange and its core is very indistinct. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00; 10 lbs., $9.00.**

Sweet Corn — Maiz Dulce

CULTURE—Plant Sweet Corn in the Spring after all danger of frost, when the soil is warm enough to assure germination. Plant four or five kernels in hills 18 inches apart in three-foot rows. Cultivate after each irrigation until stalks shade the ground. Do not allow the soil to become too dry at any time. One pound of seed will plant 200 to 300 feet of row or from six to ten pounds per acre, depending on the size of the seed. June Corn and Hickory King may be planted in June, July and August, while Sweet Corns should be planted in early Spring and again in August and September. Our Corn seed is from the very best selected stock. **Write us for quantity prices.**

SELECT ADAMS EARLY—Ready for table use from Spring planting in 50 to 60 days, depending on the weather. In the Fall it should produce roasting ears in 50 days. It is not a Sugar Corn but decidedly more hardy, permitting earlier planting, and for this reason is very much in demand by the market gardener. The Corn worm does not bother this variety as it does varieties of Sugar or Sweet Corns. **Large Pkt., 5c; ½ lb., 15c; lb., 25c; 10 lbs., $2.00.**

TRUCKER'S FAVORITE—Best roasting ear—not a true Sugar Corn. Stalks about 8 feet tall, ears are of medium length and thickness, average 7 to 8 inches, with 12 or 14 rows. Kernels are white. Long, tight husks protect the ear from worms and the corn is very tender when in the roasting ear stage. **Pkt., 5c; 1 lb., 25c; 10 lbs., $2.00.**

HONEY JUNE CORN—A cross of our hardy Mexican June and a Sweet Corn. Same growth characteristics as Mexican June, with a decided Sweet Corn flavor, tender and juicy. **Pkt., 5c; ½ lb., 20c; 1 lb., 30c; 10 lbs., $2.50.**

GOLDEN BANTAM—This golden colored corn is the leading variety for early home garden planting, ears though small are numerous and of finest quality, very sweet and tender. **Pkt., 5c; ½ lb., 20c; 1 lb., 35c; 10 lbs., $3.00.**

COUNTRY GENTLEMEN—A good home garden variety, cob small, grains very deep, small and irregular, very sweet and tender. **Pkt., 5c; ½ lb., 20c; 1 lb., 35c; 10 lbs., $3.00.**

OREGON EVERGREEN—A very early variety of Sugar Corn of excellent flavor and large size. It can be grown early in the Spring or late in the Fall and is in much demand by the market gardener. This Corn is extra sweet and due to the tight folding of its shucks is as near corn worm proof as any. **Large Pkt., 5c; ½ lb., 20c; lb., 35c; 10 lbs., $3.00.**

Field Corn

For Roasting Ears and Ensilage—SACATON JUNE—Lb., 20c; 10 lbs., $1.75. Ask for Quantity Price.

REID'S YELLOW DENT—Lb., 20c; 10 lbs., $1.75. Ask for Quantity Price.

HICKORY KING—Lb., 20c; 10 lbs., $1.75. Ask for Quantity Price.

Pop Corn

WHITE RICE—A popular and productive variety. The kernels are fine, white, and the ears are from four to five inches long. **Large pkt., 5c; ½ lb., 15c; 1 lb., 30c; 10 lbs., $2.50.**

For Corn Worm use LEAD ARSENATE or FLUOCIDE.

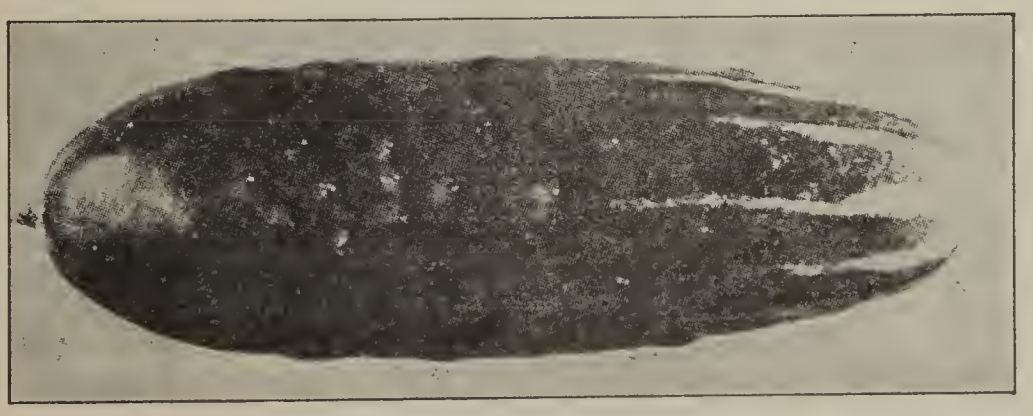
Cucumber — Pepino

CULTURE—Plant Cucumbers in the Spring as soon as all danger of frost is over. If you are located in light frost areas planting may be made two to four weeks earlier and receive the full benefits of the early market prices. In the Salt River Valley and similar sections plantings are also made in the Fall, usually August and September. Plant six to ten seeds one inch deep in hills four feet apart each way. One ounce will plant 50 hills, two pounds to the acre. After all danger of pests are removed and you are sure of your plants, thin out, leaving three of the strongest plants. Give abundance of water and frequent cultivation for the best results. Cucumbers enjoy a light, sandy, rich soil.

Prices on Cucumber Seed, unless otherwise noted are as follows, postpaid: Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., $1.25.

PRICES LISTED ARE POSTPAID

SELECT EARLY FORTUNE—This Cucumber has proven exceedingly popular and profitable in Arizona as well as elsewhere. Very productive, early and disease resistant; fruits about eight inches long, slightly tapering; flesh is white; very firm and crisp, with few seeds. It is of a rich green color and keeps well. Ready for market in about 60 days.



LIEFGREEN'S SELECT EARLY FORTUNE
Market Gardeners (Write for Quantity Prices)

EARLY ADAMS SELECT

PERFECTED DAVIS PERFECT — A splendid Cucumber possessing all the merits of the best slicing varieties. Dark, glossy green, slim and symmetrical, with an average length of ten to twelve inches. Quality fine. Tender and brittle, of exceptional flavor. Very early.

IMPROVED LONG GREEN—Grows from 12 to 14 inches long and is of superior quality. Of fine dark green color and slender. Flesh very firm and crisp.

KLONDIKE — Another good white spined variety, medium length, very dark color and fine quality.

EARLY WHITE SPINE—One of the best early varieties; uniformly straight and handsome dark green.

BOSTON PICKLING—Very prolific; largely planted for pickles. The fruits are short, smooth, bright green and of excellent quality.

JAPANESE CLIMBING—A very rampant grower, fruits long deep russet, and of excellent quality, weigh 2 lbs., 8 to 9 inches long and 2½ inches in diameter. **Pkt., 5c; oz., 20c; ¼ lb., 65c.**

LEMON—A new variety, the color of a lemon when ready for use and similar in shape. **Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., $1.75.**

CLARK'S SPECIAL—An outstanding variety for shipping, and for market gardeners. Holds its color and firmness when handled long distances. Frults weigh 2¼ pounds; handsome, very dark green color.

See Liefgreen for Quality Lettuce Seed

LIEFGREEN'S

Lettuce—Lechuga

CULTURE—Lettuce is best suited to rich, light, loamy soil and should never be planted in worn-out soils. At planting time the soil should be in the best of condition. Sow seed on ridges in rows 18 inches apart and when plants are large enough thin to 10 to 15 inches apart. Run the water in furrows between the ridges and never allow the water to touch the plants.

When Lettuce is planted early in hot ground plant two pounds of seed to the acre. During the Winter season, when the soil is cool, one and one-fourth pounds per acre is plenty.

Head Lettuce

Prices on all varieties of Lettuce seed listed as follows: **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.25; all postpaid.** Ask for prices in larger quantities for commercial plantings.

NEW YORK No. 515, IMPROVED — An early variety well adapted to late Spring production in the Salt River Valley; Resistant to tip burn; Heads medium large, compact, attractive; a development from New York No. 12.

NUMBER 12, NEW YORK—A type of early maturing New York Lettuce. Matures about 10 days earlier than the regular New York and cuts very evenly in the field. This Lettuce should be planted both for early Fall and Spring markets.

NEW YORK SPECIAL—Hardy, uniform heads, wavy light green outer leaves with the center bleached pure white.

ARIZONA WONDERFUL — A splendid variety for market or home use. Large, crisp, tight heads and a great favorite wherever grown.

Endive—Escarola o Endiva

CULTURE—Sow seed at any time with the exception of the hot Summer months. Sow thinly in rows 18 inches apart and cover lightly. When about four inches tall they should be thinned out to stand a foot apart in the row. This plant grows to perfection and makes a very delicious salad for Winter use. After plants are well grown gather up leaves and tie at tips into a loose bunch to bleach the inner leaves.

GREEN CURLED—A hardy vigorous variety with deep green leaves. This variety is generally preferred as it bleaches to a beautiful golden yellow. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

Kohl Rabi—Colinabo

CULTURE—Kohl Rabi is a cold weather plant and should be seeded from early Fall to early Spring, eliminating the hot Summer months. In colder sections plant in early Spring. Plant like turnips and thin to six inches apart. One ounce of seed will produce about 2,000 plants.

EARLY WHITE VIENNA—Earliest sort, very tender, excellent for table use. **Pkt., 5c; ob., 25c; ¼ lb., 85c; lb., $2.50.**

EARLY PURPLE VIENNA — Similar to above, but has flesh of purple color. **Pkt., 5c; oz., 25c; ¼ lb., 85c; lb., $2.50.**

Garlic—Ajo

CULTURE — Plant in the Salt River Valley and similar climates during October and November. In higher altitudes during the Spring season. Prepare ground as for onions, separate the sets and plant them in drills four to six inches apart in rows 12 to 18 inches apart, depending on the method of cultivation. Cultivate like onions and when plants turn yellow pull bulbs and dry in the shade. One pound will plant about 50 feet of row.

GARLIC SETS—40c per pound, postpaid.

LIEFGREEN'S IMPROVED TYPE No. 515 LETTUCE

IMPERIAL "D"—Medium heads, desirable for fall crop. Will stand considerable cold, but susceptible to tip burn in warm weather.

IMPERIAL "152"—Medium sized, solid heads. Quite hardy, very sure heading, also resistant to brown blight.

IMPERIAL "615" — One of the largest heading varieties. Resistant to brown blight; does not make suckers. Desirable for early Spring cutting.

ICEBERG—A splendid Head Lettuce for Spring planting.

Egg Plant—Berengena

CULTURE—Egg Plant grows exceedingly well in Arizona, as it thrives in warm, dry weather. Sow in hot beds or boxes and transplant when danger of frost is over. Plant two feet apart in four-foot rows. To secure a rapid and continuous growth, water and cultivate frequently. One ounce of seed will produce about 1,000 plants.

BLACK BEAUTY—The fruits are rich, dark purple, large and symmetrical, maturing a little earlier than our Improved New York Purple but usually not quite as large. **Pkt., 5c; oz., 50c; ¼ lb., $1.65; lb., $5.00.**

IMPROVED NEW YORK PURPLE — Large, oval-shaped, deep purple fruits. **Pkt., 5c; oz., 50c; ¼ lb., $1.65; 1 lb., $5.00.**

PRICES LISTED ARE POSTPAID

EGG PLANT
Selected Black Beauty

Leaf Lettuce

PARIS COS or ROMAINE—Leaves yellowish white, very crisp and tender; a self-blanching lettuce of superior flavor.

DENVER MARKET — For the family garden plant this variety broadcast on ridges, allowing it to grow thick.

Kale or Borecole—Breton Berza

CULTURE — Sow in drills during the Fall and Spring months. Transplant to 12 inches apart in three-foot rows. One ounce required for 100 feet of drill.

GREEN CURLED SCOTCH—Grows to a height of two feet or more; leaves are bright green and curled. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

Leek—Puerro

CULTURE — Plant in seed bed or in drills in the field; when large enough transplant or thin out about six inches apart in 18-inch rows. One ounce of seed is required to 150 feet of row.

LARGE LONDON — Broad leaves of strong and vigorous growth; very hardy. **Pkt., 5c; oz., 25c; ¼ lb., 85c; 1 lb., $2.50.**

Herb Seeds—For Planting

ANISE—Used as a cordial and for garnishing and flavoring.

BASIL—Sweet. The leaves are used for flavoring soups, stews and highly seasoned dishes.

BORAGE—Leaves are used for flavoring and flowers furnish bee pasture.

CARAWAY—Seeds are used extensively for flavoring of bread, pastry, etc.

CATNIP or CATMINT—The leaves are used for seasoning.

CHERVIL—Used in soups and salads.

CORIANDER — Used in the manufacture of liquors and confectionery.

DILL—Seeds have an aromatic odor and warm, pungent taste. Used as a condiment and also for pickling cucumbers.

LAVENDER—Used chiefly in the manufacture of perfumery.

MARJORAM—Sweet. For seasoning in summer and are also dried for winter use.

ROSEMARY—The aromatic leaves are used for seasoning.

SAGE—The most extensively used of all herbs as a seasoning for dressing.

SORREL—Used in soups and salads.

SUMMER SAVORY—The dried stems, leaves and flowers are used for flavoring, dressing and soups.

SAFFRON—Used for flavoring.

THYME—Used for seasoning.

HERBS—Price 10c, Pkt., Postpaid.

Plant Liefgreen's Watermelon Seeds

CULTURE — Use our northern grown seed for a successful melon crop. Our Melon seed is selected from the very best types and will grow hardier, larger plants and melons than average seed. Plant seed in furrow, dropping six seeds every eight or ten feet apart. Cover about two inches deep. As the vines grow, hill the earth about them until the roots are 10 to 12 inches deep. When safely established, thin vines to about two to the hill. Be sure to cultivate after each irrigation as soon as the condition of the soil will permit. Use two to two and a half pounds of seed to the acre.

Black Seeded Klondike

One of the best Melons grown for shipping and home use. The rind is very thin and of a medium green color. The flesh is bright red, tender and deliciously sweet. Our seed is of the genuine strain, as our selections are made from perfect specimen Melons. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25; 10 lbs., $10.00.**

KLONDIKE BROWN SEEDED—The outstanding variety for shipping and home garden use in Arizona. Popular because of its delicious flavor and attractive interior color. Flesh bright red and very sweet. Fruits oblong and of uniform green color. **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.25.**

STRIPED KLONDIKE—A most attractive melon in both outside appearance and when cut. Has a rind that is tough, hard, and fairly thick, making it a good shipper. Color is light green with irregular stripes of dark green. Does not show sunburn easily. Average weight 27 lbs. Flesh is scarlet with high sugar content. Edible qualities are excellent and delicious. Seeds are black splotched and striped with brown at the edges **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25; 10 lbs., $10.00.**

LIEFGREEN'S—SELECTED DARK SEEDED KLONDIKE (for particular planters)

STONE MOUNTAIN—A very large oval round shaped melon. Rind dark green and tough. Flesh is deep scarlet and very sweet. A very desirable shipping and home garden melon. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

KLECKLEY SWEET—A medium size melon, rind very green and flesh deep red. Delicious flavor. An excellent melon for either home garden or shipping. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

ANGELENO WHITE SEEDED—A fine quality early melon nearly round, dark green; flesh bright red and fine quality. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

ANGELENO BLACK SEEDED—Much like white seeded Angeleno except in color of seed. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

TOM WATSON—Another large shipping melon of good quality. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 90c.**

PEERLESS or ICE CREAM—A large oval melon with yellow flesh of good quality. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

IMPROVED BLACK-SEEDED CHILIAN — This Melon possesses a rich fruity flavor. Very sweet and has a thin rind. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

IMPROVED WHITE-SEEDED CHILIAN—A very good Melon.. It is extra solid, crisp and sugary—a great favorite with the growers. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

CITRON or PRESERVING MELON—For preserves. Fruit round and smooth. Is not eaten raw but is used for making clear transparent preserves of peculiarly fine flavor. Fresh white and solid. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

WATERMELON—SELECTED STRIPED KLONDIKE

GEORGIA RATTLESNAKE—Standard variety. Oblong; scarlet flesh, crisp and juicy. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

SWEETHEART—Vines vigorous and productive. Flesh bright red, solid, very tender and deliciously sweet. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

FLORIDA FAVORITE—An old popular long stripe Melon of good quality. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 90c.**

EXCEL—Large size, extra good shipper and a heavy yielder. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

IRISH GRAY or GENERAL PERSHING — Color is a yellowish gray. Flesh is a brilliant sparkling red, very sweet and firm. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

SNAROL
The National Pest Control

Use Snarol for the control of Snails, Cut Worms, Grasshoppers, etc. Non-injurious to vegetation and will not deteriorate from rain.

1½ lb. Pkg., 25c. 4 lbs., 60c.
15 lb. Bag, $1.95. 50 lb. Bag, $4.50.
F.O.B. PHOENIX — POSTAGE EXTRA

Write us for prices on Hot Kap and Hot Tent covers for Early Vine Crops.

PRICES LISTED ARE POSTPAID UNLESS QUOTED OTHERWISE.

MARKET GARDENERS AND SHIPPERS—NOTE—

We are headquarters for Market Garden supplies, seeds, sprayers, insecticides, etc. Please write for special quotations for quantities. Write us in regard to your insect pest problems.

LIEFGREEN'S IMPROVED KLECKLEYS SWEET

Liefgreen's Muskmelon, Honey Dew and Casabas

LIEFGREEN'S GOLDEN BEAUTY CASABA

Honey Dew and Casaba

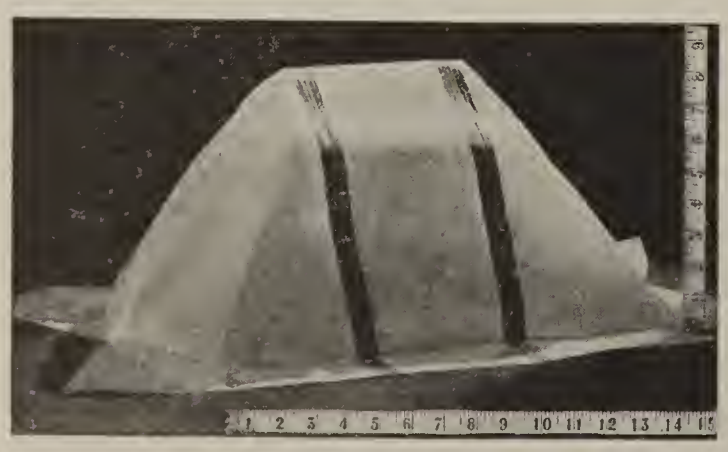
HONEY DEW—Excellent flavor, good keeping qualities and very prolific. Flesh is light green and sweet as honey. Ready to pull when green lustre has changed to a creamy yellow and ready to eat when an impression can be made with the thumb. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

GOLDEN BEAUTY—The most popular and the best flavored Casaba Melon grown. Grows from six to eight inches in diameter, is nearly round, slightly pointed at the stem end. The wrinkled skin is a beautiful golden yellow and the rind is very hard. The flesh is pure white and very thick. **Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., $1.50.**

DELICIOUS HONEYDEW

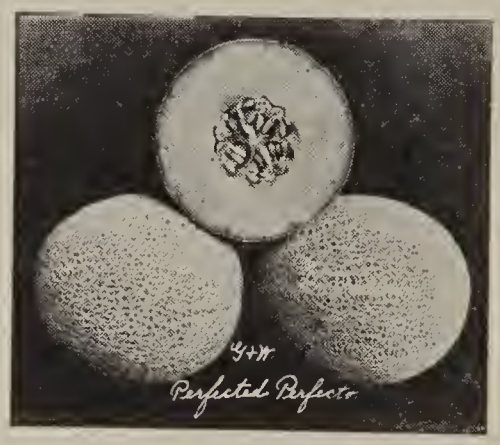
PERSIAN — This Melon is popular and much in demand. Very large, running from 8 to 10 inches in diameter. Thick yellow flesh of delightful flavor distinctly different from other Melons. Should be picked while firm but not eaten until the rind will give under pressure. **Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., $2.25.**

DELICIOUS GOLD LINED ROCKY FORD—Thick flesh, green in color, with a gold margin next to seed cavity. Has the best flavor of all Rocky Fords. **Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., $1.50.**



GROW PROFITABLE CROPS WITH HOT TENTS

CULTURE — Thoroughly soak the soil. When dry enough, plow 10 or 12 inches deep. After pulverizing the soil make furrows 8 or 10 inches deep. Plant the seed in furrows 6 feet apart each way, using 8 to 10 seeds to a hill, which will require 1½ pounds to the acre. When paper covers are used, planting in the Salt River Valley generally starts in February and March. If covers are not used, plant after danger of frost is over. As the plants grow, gather the soil around them until the roots are ten or twelve inches below the surface. Thin out surplus plants as soon as they are hardy and well established. Please remember that the roots are as long as the vine; therefore when working close to the vines let the cultivation be shallow. Always cultivate the irrigating furrow when dry enough so as to conserve the moisture. See Liefgreen's guide for insect pests on melons.



PERFECTED PERFECTO — Perfected Perfecto runs large and very uniform in size and has a fairly coarse heavy net. The seed cavity averages very small, usually a half dollar will cover it. The rich, dark, orange-colored flesh extends to the rind. The flesh is fine-grained, melting and of excellent flavor, and for keeping and shipping qualities it is unsurpassed. Seed from hand cut, crown set Melons. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

HONEY BALL—This melon has become very popular. In appearance it is similar to the Honey Dew, but is smaller and runs more uniform. Has a wonderful flavor and preferred sometimes to the Honey Dew. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

TIP TOP—A prime favorite for the home garden or nearby markets. Medium size, deeply ribbed, slightly netted. Flesh is salmon, rich and sweet. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

HEARTS OF GOLD — A very popular Melon. A strong vigorous grower. The Melons run oval to oblong in shape; very uniform in size. Slightly ribbed and heavily netted. Small seed cavity; rich orange colored flesh, finely grained and of excellent flavor. Remains solid for many days after cutting. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

HOTENTS

PROVIDE PERFECT PLANT PROTECTION

HOTENTS are designed to protect and force all varieties of plants where a large plant protector is needed. They are made of a scientifically manufactured paper which is extra strong.

HOTENTS are of a generous size, being 10½x14½ inches at the base, creating 152½ square inches of protected ground. They are 8½ inches high.

HOTENTS are strong, being supported with two patented covered wire bows fastened to the under side and running parallel across the body.

HOTENTS are packed 500 to the package and weigh 35 pounds to the package.

PRICES: 500 lot, $6.50; 1000 lot, $12.00; Setter, $1.75; postage or freight extra.

LIEFGREEN'S SELECT No. 45 MELON

HALE'S BEST No. 45—Excellent flavor and a good keeper as well as mildew resistant. An early variety developed particularly for the shipping trade. The No. 45 is a true Hale's Best. Oval shape, medium size, with heavy net and a faint stripe. Flesh is deep salmon, thick, and firm with small seed cavity. Recommended to plant where mildew is prevalent. **Pkt., 5c; oz., 20c; ¼ lb., 50c; 1 lb., $1.50, postpaid. Ask for Quantity Prices.**

EARLY HALE'S BEST No. 36—An extra early salmon tint of remarkable flavor. Melons are oblong, well netted and attractive. Small seed cavity. Ten days to two weeks earlier than other varieties and yields big. One of the best main crop Melons. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

SELECTED HALES BEST No. 36
SHIPPING MELON

IMPROVED PINK MEAT or BURRELL'S GEM—Flesh thick, salmon in color and fine flavor; rind heavily netted. One of the best keeping Melons grown and a heavy producer. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

TIP TOP
An Excellent Home Garden Melon

Plant Liefgreen's Onions for Profit

Mustard—Mostaza

CULTURE—Very easy to grow. Sow in the Fall and during the Winter and Spring months. Drill in rows and cover lightly. Mustard is not particular as to soil, but a medium heavy soil is best.

SOUTHERN CURLED—The true curled leaf variety. Cooks like Spanich and has a very agreeable flavor. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.**

OSTRICH PLUME—Is delicious as well as ornamental; the leaves resamble ostrich plumes, hence the name. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.**

CHINESE WHITE—This is a delicious vegetable, being less pungent than the American varieties. Like Spinach, it thrives during the Winter season. **Pkt., 5c; oz., 40c; ¼ lb., $1.35; 1 lb., $4.00.**

Seed Potatoes

Plant Potatoes in the Spring as soon as weather conditions will allow. Between 600 and 800 pounds are required to the acre. Plant three or four inches deep in hills nine inches apart in three-foot rows. Cultivate frequently and irrigate only when necessary.

You will note that we have listed only two varieties, which we think are the only and best varieties suited for this section. We also quote only in 10 and 25-pound lots. When larger quantities are wanted we will quote you the very lowest prevailing prices.

IRISH COBBLER — One of the finest early Potatoes, of uniform size and good quality. Makes a strong growth and a heavy yield. The clean white skin and shallow eyes shows well the fine quality and handsome appearance of this Potato. **5 lbs., 40c; 10 lbs., 75c; 25 lbs., $1.25; postage extra. Write for quantity prices.**

BLISS TRIUMPH—A pink-skinned variety of the best quality and the earliest Potato for this section. Good size and excellent quality. The most satisfactory Potato where moisture is not plentiful and a quick crop is necessary. **5 lbs., 40c; 10 lbs., 75c; 25 lbs., $1.25; postage extra. Ask for quantity prices.**

Pumpkins—Calabasa

CULTURE—Plant in hills 8 to 10 feet apart each way in March and July and August. Drop five or six seeds to the hill and thin out to one healthy plant. Pumpkins, like other vine crops, should be irrigated carefully, not allowing the water too near the main stalk. About 1½ pounds are required to the acre. Plant plenty of Pumpkins as they make excellent cow and hog feed.

SMALL SUGAR—A very popular small variety. The skin is a deep orange yellow and the flesh sweet and fine-grained. Sells better than any other Pumpkin on the local market. Excellent for pies. **Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., $1.00.**

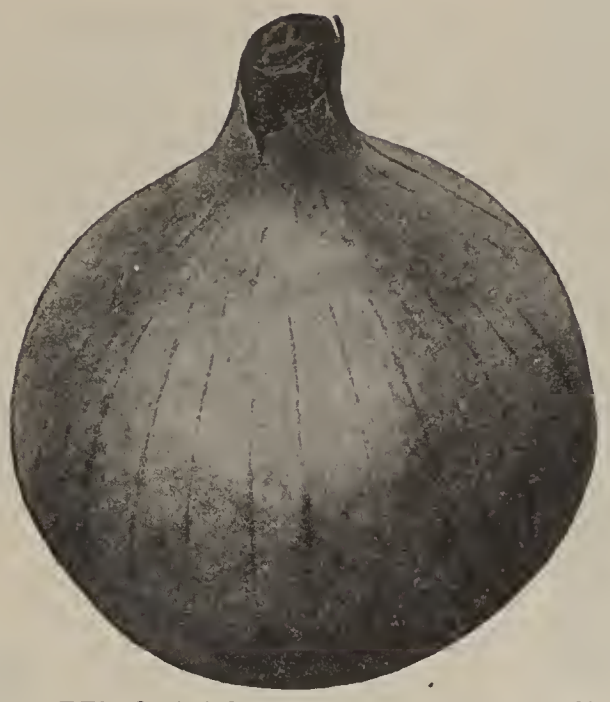
LARGE CHEESE — Large size; reddish orange; flesh thick, fine and sweet. A good keeper. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 90c.**

JAPANESE PIE — Nearly solid flesh; the seed cavity being very small, fine-grained, dry and sweet. Taste somewhat like sweet potatoes. They ripen early and are good keepers. **Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., $1.00.**

CONNECTICUT FIELD—A fine variety for dairy ranches, adding much to the quality and quantity of milk and butter. Excellent keeper. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.**

IMPROVED YELLOW CASHAW — A crookneck Pumpkin. Solid, fine and sweet. Keeps well. **Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., $1.00.**

PRICES LISTED ARE POSTPAID UNLESS OTHERWISE SPECIFIED



SWEET SPANISH OR VALENCIA ONION

WHITE SWEET SPANISH — Similar to the original Sweet Spanish with the exception that it is white fleshed. Like the original, it is a good keeper. Is globe-shaped and will grow where other onions will thrive. We are very proud of our strain of this onion as it has given wonderful results. **Pkt., 5c; oz., 35c; ¼ lb., $1.10; 1 lb., $3.50.**

RIVERSIDE SWEET SPANISH—Large, well shaped brown onions weighing 1 to 3 lbs. If properly cured are good keepers and also good shippers. For sized onions thin to 6 to 8 inches apart. Onions are globular, with golden yellow skins, white flesh, very mild, with a pleasing flavor. **Pkt., 5c; oz., 30c; ¼ lb., $1.00; 1 lb., $3.00, postpaid.**

GREAT GREEN BUNCHING ONIONS—Produces the long, tender, sweet green Onions which are so popular on the table of those who enjoy good eating. **Pkt., 5c; oz., 35c; ¼ lb., $1.00; 1 lb., $3.00.**

Okra or Gumbo

CULTURE—Okra thrives well in Arizona and is a very popular vegetable. Requires a generous supply of water and responds readily to fertilization and cultivation. Plant after all danger of frost is over in drills and thin to 12 inches apart. Sow one ounce to 50 feet of row. To produce really early Okra plant heavily, at least ten or twelve pounds to the acre.

EARLY DWARF GREEN — Short pod. Dwarf, stocky growth, heavy bearer. The pods are medium short, greenish color, tender and of good flavor. The most popular variety. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.**

LONG GREEN—A very productive variety. Long ribbed pods. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.**

PUMPKIN — SMALL SUGAR

Onions—Cebolla

CULTURE—A rich, well drained soil will produce fine Onions. If soil is not well drained it will produce thick necked scallions. A well fertilized sandy loam is the best. In the lower altitudes in Arizona, planting starts in September and continues throughout the Fall and early Winter months. Time of planting depends on the variety. Drill Onion Seed in 14-inch rows and irrigate in the furrows between the ridges to avoid flooding the onion, which causes rot, rendering it unfit to ship or keep. Three pounds of seed is required to the acre for dry Onions or one ounce to the 100 feet. For Green Onions or Bunching Onions plant ten pounds per acre. Our Onion Seed is of the highest type as to germination and purity. Consult with us as to what and how to plant and allow us to quote you quantity prices.

CRYSTAL WHITE WAX—A large white Bermuda type Onion that has become very popular. It is very early, very mild in flavor and an excellent shipper and keeper. Our seed is of the best type procurable. **Pkt., 5c; oz., 30c; ¼ lb., $1.00; 1 lb., $3.00.**

SILVER SKIN—One of the leading white Onions. A good keeper and shipper. Under good cultivation the average diameter is from four to six inches. The thick skin is a clear silvery white, flesh snow white, sweet and tender. **Pkt., 5c; oz., 25c; ¼ lb., 85c; 1 lb., $2.50.**

YELLOW GLOBE DANVERS — A well known early Onion of fine quality. **Pkt., 10c; oz., 30c; ¼ lb., $1.00; 1 lb., $3.00.**

YELLOW BERMUDA—Outer skin is of a pale strawish color. A large flattish Onion with a very mild flavor. Very early. **Pkt., 5c; oz., 25c; ¼ lb., 85c; 1 lb., $2.50.**

Liefgreen's Onion Sets

The earliest onions are grown from sets planted in September. This brings them in the market in February and March, when prices are highest. About 250 lbs. of sets will plant one acre.

State whether you wish white sets or yellow.

We have no sets of the Sweet Spanish.

Set them three inches apart in rows six inches apart. When ready for use, take up every other one as needed, allowing the balance to grow to mature size One pound of sets will plant about fifty feet of row. **Lb., 30c postpaid; 10 lbs., $2.50 postpaid.** Write for quantity prices.

Parsley

CULTURE—Sow in the Fall or early Spring. As the seed is slow to germinate, a light mulch over the seed bed will retain the moisture and hasten germination. Cover lightly. One ounce of seed will produce about 500 plants.

MOSS CURLED—Excellent for garnishing and flavoring and very decorative. Leaves are very fine and crisp. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

Parsnip—Cheribia

CULTURE — Plant from October to March. Sow in drills in rich soil ½-inch deep and 15 inches apart. Cultivate like carrots and thin to four inches apart. One ounce of seed will plant about 100 feet of row; five pounds to the acre.

HOLLOW CROWNED — The very best Parsnips, either for table use or for stock. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

LIEFGREEN SEED CO.
339 W. VAN BUREN
PHOENIX, ARIZONA

Liefgreen's Peppers

CALIFORNIA WONDER PEPPER

Peppers—Pimento o Chili

CULTURE — Sow seed in hot beds in November, December and January. Transplant to the field when all danger of frost is over unless paper plant protectors are used. Peppers delight in highly fertilized soil and should be kept well watered. Plant 18 inches apart in 30-inch rows. One ounce of seed will produce 1,000 plants or ½ pound seed to the acre.

CHINESE GIANT—The ideal stuffing Pepper, of exceptional merit. It is very mild in flavor, grows to a large size and is highly productive. **Pkt., 5c; or., 60c; ¼ lb., $1.75; 1 lb., $6.00.**

ANAHEIM CHILI—Pods about seven or eight inches in length. Because of its agreeable pungency it is one of the most popular Peppers on the market. Pods keep for months when dried, which makes it a good, marketable crop. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $4.50.**

CALIFORNIA WONDER—It is the best large fruited Pepper in existence, very smooth, heavy, free from creases and wrinkles. Meat thick, tender, and of finest flavor. **Pkt., 5c; oz., 75c; ¼ lb., $2.25; 1 lb., $6.75.**

FLORAL GEM—The favorite variety when a small hot pepper is desired for picking or highly flavored sauces. **Pkt., 5c; oz., 60c; ¼ lb., $1.75; 1 lb., $6.00.**

PIMIENTO—Every garden should have a row of this Pimiento. For salad, parboil it to remove the skin. Stuffed and baked, it is superior to any other Pepper. **Pkt., 5c; oz., 35c; ¼ lb., $1.15; 1 lb., $3.50.**

MEXICAN CHILI — Popular on account of its extreme pungency. Medium sized and pear shaped. Turns bluish black when dried. **Pkt., 5c; oz., 55c; ¼ lb., $1.85; 1 lb., $5.50.**

Peas—Chicaros o Alverjoa

CULTURE—Plant Peas from September 10 to April 1. Peas are very hardy and will stand a great deal of cold. During cold weather plant seed one to two inches deep; in the warmer months plant three to four inches deep. Excessive moisture will rot the seed, so do not irrigate after seed is planted until the plants are well out of the ground. Sixty pounds to the acre is the amount usually used.

Prices on Pea Seed as follows—**Pkt., 5c; ½ lb., 20c; 1 lb., 30c; 5 lbs., $1.25; 10 lbs., $2.25. Postpaid to the 1st, 2nd. and 3rd Zones.** Prices F.O.B. Phoenix not postpaid as follows—**Pkt.. 5c; ½ lb., 15c; 1 lb., 25c; 5 lbs., $1.00; 10 lbs., $1.80.** Write for special quantity prices.

LAXTON'S PROGRESS (Early)—Regarded by some large users as the best of the large podded early peas. Vine 18 to 20 inches high, pods large, of fine color, that stand long distance shipping well and are well filled with large peas of finest quality. Plant on good rich land in September.

HUNDREFOLD—An early variety and a great favorite with the market gardener. Plant in September for fall crop. It is a dwarf variety and produces abundantly the large pods that are well filled with highly flavored peas.

DWARF TELEPHONE—Planted after the Progress, usually in November for a Spring crop. More generally planted by the large growers than any other Pea.

IMPROVED STRATAGEM—A very popular late bush variety. Used extensively by the large growers and shippers. The pods are a dark green color and remain firm several days after picking.

TALL TELEPHONE—Vines vigorous, growing about four feet high, with large coarse, light colored leaves and producing an abundance of large pods well filled with immense peas.

PEAS—LAXTONS PROGRESS

RADISH
Long White Icicle, Crisp and Tasty

Radish—Rambano

CULTURE—Radishes may be planted almost any month of the year in southern Arizona with the exception of the hottest months. They thrive best in light, rich, sandy loam. By planting a long Radish and the small Turnip variety at the same time a continuous crop may be had during the entire season. Sow in drills as close as convenient to cultivate. Plant one ounce of seed to 100 feet of drill, ten pounds to the acre.

All Radish Seed priced as follows except as noted—**Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., 85c; 5 lbs., $3.50.**

LONG WHITE ICICLE—The most popular long white Radish. Very early, crisp, sweet and tender. Reaches a length of about six inches.

EARLY LONG SCARLET—Long bright scarlet. Very brittle and sweet; matures early.

WHITE TIPPED SCARLET TURNIP—This Radish is a table dainty, crisp, tender and sweet. Turnip-shaped, bright scarlet color, with white tip.

EARLY SCARLET TURNIP — A handsome scarlet; flavor very mild; crisp and juicy.

CRIMSON GIANT — Twice as large as any other turnip-shaped variety. Does not get hollow or pithy; flesh white, solid, crisp; mild flavor. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., 90c; 5 lbs., $3.75.**

FRENCH BREAKFAST—An early variety with good flavor and attractive appearance, being olive-shaped of light scarlet, tipped with white.

ROUND BLACK SPANISH—Black skin, white flesh and of firm texture. **Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

EARLY SCARLET GLOBE—Very popular variety on the Phoenix market. The radishes are oval in shape and are a rich scarlet color. Used extensively by market growers.

JAPANESE NERIMA—An important variety for home and market. Very long and narrow at the neck and tip, measuring well over 2 feet in length and 3 inches in diameter. Flesh is snow white, brittle, and a good keeper. **Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., $1.50.**

MIXED RADISH—A mixture of all the varieties we list. Try this mixture and have them early, medium, late and all sizes.

LIEFGREEN SEED CO. INC.

Plant Liefgreen's Squash Seed for Profit

Squash—Calabaza

CULTURE—Sow in the Spring after all danger of frost is over and also in the Fall in time to mature a crop before frost. Light, warm soil is best. Plant bush varieties in hills three to four feet apart and vining varieties from six to eight feet apart. Plant about six seeds to the hill and thin out to the three best plants. One ounce will plant about 40 hills of bush varieties and about 15 hills of vining varieties. Two or three pounds is required to the acre.

For very early plantings protect them with Hotkaps.

True Type BLACK ZUCCHINI SQUASH

Summer Varieties

BLACK ZUCCHINI or ITALIAN — The most desirable sort for the home and market garden. The fruits are long and very dark green. Vines are bush formed and very productive. Fruits are used when quite young and average 4 to 6 inches long. **Pkt., 5c; oz., 20c; ¼ lb., 50c; 1 lb., $1.50 postpaid.**

GOLDEN YELLOW STRAIGHTNECK—Select type of golden summer squash with a straight neck instead of curved. For this reason it is more desirable for packing in boxes for shipping. (Bush). **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

IMPROVED GREEN TINT WHITE BUSH SCALLOP

Spinach—Spinaca

CULTURE — Sow in drills 12 to 18 inches apart, and for a succession, plant every two weeks. Cultivate often and keep free from weeds. Sow from September 1 to April, using one ounce of seed to 75 feet of row and from 20 to 25 pounds to the acre.

PRICKLY WINTER — HOLLANDIA—(Broad Leaf)—A splendid Fall and Winter variety, quick growing with large green leaves. The leading variety in the Salt River Valley. We import thousands of pounds of this variety from Holland every Fall for Valley growers. Ask for quantity prices. **Pkt., 5c; oz., 10c; ¼ lb., 15c; 1 lb., 50c; 5 lbs., $2.25.**

BLOOMSDALE — A favorite with market gardeners. Has thick, dark green wrinkled leaves and is very hardy. Very early and one of the best for Fall use. **Pkt., 5c; oz., 10c; ¼ lb., 15c; 1 lb., 50c; 5 lbs., $2.25.**

NEW ZEALAND—A large seeded cut-and-come-again variety. Not planted commercially. One plant will cover a four-foot area. Try a packet for the family garden. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 90c.**

PRICES LISTED ARE POSTPAID

Summer Varieties

EARLY SUMMER CROOKNECK — A small crookneck Summer Squash. Skin bright yellow. This is the richest of Summer Squashes. Very early and productive. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

IMPROVED GREEN TINT WHITE BUSH SCALLOP—Similar to the well-known White Bush Scallop, but selected for the darker green fruit which holds its color longer and makes it very desirable for market purposes. (Bush.) **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

Winter Varieties

FORDHOOK—One of the best late varieties and will keep well through the winter if stored in cool, dry place. Thick skin of bright yellow color, heavy meat. Excellent for baking. **Pkt., 5c; oz., 15c; ¼ lb., 30c; 1 lb., $1.25.**

TABLE QUEEN—A small squash growing about 7 inches long and 4 to 5 inches thick. The color is deep green with the under portion an orange red where it rests on the ground. Very sweet and fine grained and suited for home garden or market. An excellent keeper for winter use. Half is sufficient to serve one person. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

Rutabaga or Swedish Turnip

CULTURE—Same as for Turnips.

IMPROVED YELLOW PURPLE TOP—The popular standard variety, both for stock feeding and for table use. Yellow flesh, solid and sweet. **Pkt., 5c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.**

Salsify—Salsifi Blanco

OR VEGETABLE OYSTER—CULTURE—Plant during the early Spring months. Sow one inch deep in drills 12 inches apart and thin out to about three inches in the row. The soil should be deep and loose and never allowed to get dry.

SANDWICH ISLAND — An improved type and the largest and most delicious Salsify in cultivation. **Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., $2.25.**

SPINACH—PRICKLY WINTER

Winter Varieties

IMPROVED HUBBARD—By far the most popular hard-shelled Squash. Unsurpassed for baking and for pies. Dark, bronze green skin and flesh is fine-grained, thick, dry and richly flavored. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

GOLDEN HUBBARD—Similar to green Hubbard except in color, which is a deep orange. Deep golden yellow flesh, fine grained; cooks dry and is of excellent flavor. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

BANANA—A deservedly popular variety growing 18 inches to 2 feet long, 6 to 8 inches in diameter; skin grayish blue; flesh yellow and fine grained. An excellent table variety without a hard shell. **Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

TABLE QUEEN

Turnips—Nabo

CULTURE—Turnips are of very easy culture. Sow from September 1 to March 1, either broadcast in loose loamy soil or in double rows on ridges. One ounce of seed will plant about 75 feet of row or three pounds broadcast to the acre.

PURPLE TOP WHITE GLOBE — The most popular and the most attractive Turnip on the market. Grown almost exclusively by the market gardeners. A rapid grower, has pure white flesh and the best flavor of any Turnip grown. Skin is white, with a purplish top. Slow to get pithy and marketable at almost any size. Our seed is grown from selected roots.

PURPLE TOP STRAP LEAVED — Quick grower. Flesh very fine grained and sweet flavored.

WHITE EGG—An egg-shaped variety for early or late planting. Flesh firm, fine grained, mild and sweet.

EARLY WHITE FLAT DUTCH — White flesh, medium size, quick growth.

GOLDEN BALL — Round, smooth, yellow Turnip of fine quality. Good keeper. All Turnips priced as follows— **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c postpaid.**

Plant Liefgreen's Tomato Seed

SELECT NORTON WILT RESISTANT

IMPROVED NEW STONE — The most popular Summer Tomato. Good size, bright red, solid, smooth and enormously productive. **Pkt., 5c; oz., 55c; ¼ lb., $1.85; 1 lb., $5.50.**

NORTON WILT RESISTANT—A wilt resistant Stone Tomato that has gained popularity owing to its wilt resistant qualities. **Pkt., 5c; oz., 55c; ¼ lb., $1.85; 1 lb., $5.50.**

MARGLOBE—The vine is vigorous, resistant to disease, fruit a large, slightly flattened globe, of fine bright color, very firm and meaty and of the very best quality. You can make no mistake in planting your main crop of Marglobe. **Pkt., 5c; oz., 50c; ¼ lb., $1.65; 1 lb., $5.**

Tomatoes—Tamata

CULTURE—Tomatoes do best in light, warm, rich soil. Sow in hot beds about eight weeks before they are to be set in the field. The time of planting depends on the soil and climate conditions. If you want early market Tomatoes, we advise covering with Hotkap Plant Protectors for frost protection. Transplant 3 to 6 feet apart in rows 4 to 6 feet apart, the distance apart to be governed by the nature of the plants, whether compact, upright growth or of vining habit. Plow and pulverize the soil to a good depth so that the roots may penetrate deeply and avoid the hot surface soil. Use about one-fourth pound of seed for field planting or one ounce of seed for every 2,000 plants in the hot bed.

SELECT EARLIANA — The most popular first early variety grown in the Salt River Valley. The plant is very handy, with light foliage which tends to early ripening. Yields well and the fruit is solid and of fine quality. **Pkt., 5c; oz., 40c; ¼ lb., $1.35; 1 lb., $4.00.**

FIRST EARLY — An exceptionally good strain of Earliana type. Fruit high color, solid and smooth. This tomato packs and ships very well and matures in 94 days. We recommend this variety as one of the best of the early tomatoes. **Pkt., 5c; oz., 60c; ¼ lb., $2.00; 1 lb., $6.00.**

CHALK'S EARLY JEWEL — Nearly as early as Earliana. Fruit large and of fine flavor. **Pkt., 5c; oz., 40c; ¼ lb., $1.35; 1 lb., $4.00.**

BREAK O-DAY—One of the earliest varieties. Developed by the U. S. Dept. of Agriculture. Medium size, solid fruit of bright red color. Excellent for the home garden, market and shipping as fruit is of beautiful color and a good shipper. **Pkt., 5c; oz., 40c; ¼ lb., $1.50; 1 lb., $4.50.**

PONDEROSA or BEEFSTEAK

DWARF CHAMPION—Commonly called Tree Tomato. Early, medium large, purplish pink fruit. **Pkt., 5c; oz., 50c; ¼ lb., $1.65; 1 lb., $5.00.**

PHOENIX SPECIAL — A good Summer Tomato. Bright purple scarlet, almost globular in shape. Very productive and quite early. **Pkt., 5c; oz., 50c; ¼ lb., $1.65; 1 lb., $5.00.**

PONDEROSA or BEEFSTEAK—A very large Tomato with very few seeds and of excellent flavor. The color is bright red with very firm substantial meat and luscious flavor. **Pkt., 5c; oz., 60c; ¼ lb., $2.00; 1 lb., $6.00.**

DWARF STONE—Very erect habit of growth, allowing plants to be set as close as 18x24 inches. Very prolific, smooth, and ripens early. Color bright red. **Pkt., 5c; oz., 50c; ¼ lb., $1.65; 1 lb., $5.00**

RED CHERRY — Small bright scarlet fruits borne in clusters. **Pkt., 10c; oz., 60c.**

HUSK or GROUND CHERRY TOMATO —Immensely productive; the small fruits are enclosed in a husk. **Pkt., 10c; oz., 60c.**

YELLOW PEAR—The favorite for preserves. Bright yellow pear-shaped fruit. Rich and distinct flavor. **Pkt., 10c; oz., 60c.**

Field Seeds, Clovers and Grass Seeds

CYCLONE SEEDER — Thirty to forty acres of alfalfa, millet, etc., can be sown in a day with this little machine. It broadcasts evenly and can be used with perfect success. **Each $2.50, postpaid.**

SUDAN GRASS—A drouth-resisting annual. Grows in a wide range of soils, from sand to heaviest adobe. **1 lb., 25c; 10 lbs., $2.00.**

LIEFGREEN BRAND CHILEAN ALFALFA SEED—Chilean Alfalfa seed is the type used very extensively in the Salt River Valley. Plant 20 pounds per acre. **1 lb., 35c; 10 lbs., $3.00.**

LIEFGREEN BRAND HAIRY PERUVIAN ALFALFA SEED—Produces remarkable amount of tonnage. **1 lb., 35c; 10 lbs., $3.00.**

LIEFGREEN'S DWARF MILO MAIZE —A very select strain of Dwarf Milo Maize growing to a height of from four to five feet. Makes a heavy stock and produces heavily. Plant three pounds to the acre. **5 lbs., 50c; 10 lbs., 85c.**

LIEFGREEN'S RESELECTED HEGARI —Harvested from selected heads. Unlike most other sorghums, Hegari not only produces a heavy crop of grain, but because of the sweet, juicy stalk and foliage it has the added feature of making good pasture of roughage and excellent silage. **5 lbs., 50c; 10 lbs., 85c.**

STANDARD BARLEY—Unequalled as a Winter pasture for cattle and sheep.

CLUB WHEAT—Soft Spring Wheat.

WINTER RYE—Grown here only as a Winter pasture crop.

AS ALL GRAINS FLUCTUATE IN PRICE WE ARE UNABLE TO LIST POSITIVE PRICES. PLEASE ASK OR WRITE FOR SAMPLES AND PRICES, STATING QUANTITIES. ALL PRICES QUOTED HEREIN ARE POST PAID TO AND INCLUDING 3rd ZONE ONLY.

TEXAS RED OATS—For Fall and Spring sowing in Salt River Valley.

EARLY BAART WHEAT — The best strain of milling wheat for central and southern Arizona and Mexico. Planted from October to March.

EARLY AMBER CANE—For pasture we recommend sowing from 50 to 60 pounds per acre.

RED TOP CANE—Will make an abundance of fodder either green or cured.

TEXAS SEEDED RIBBON CANE and ORANGE CANE—For syrup purposes.

DWARF ESSEX RAPE — Recommended as a pasture for sheep and hogs. Drill at the rate of five pounds per acre. **1 lb., 25c; 10 lbs., $1.75.**

SUNFLOWER—Highly valued by poultry breeders as poultry feed. **1 lb., 25c; 10 lbs., $2.00.**

GOLDEN MILLET—An excellent catch crop. May be planted as late as September 15 in the Salt River Valley and still produce a good crop of hay. Sow 30 pounds per acre. **1 lb., 20c; 10 lbs., $1.50.**

VETCH—Sow 40 pounds per acre with grain. Is hardy and makes a fine Winter growth. **1 lb., 20c; 10 lbs., $1.50.**

Field Peas and Beans

WHIP-POOR-WILL COW PEAS—As a soil renovator and a fertilizer the Cow Pea is in a class by itself. They should be planted at the rate of 50 to 100 pounds to the acre. **1 lb., 25c; 10 lbs., $1.75.**

BLACK-EYED PEAS—Easy to grow, and produces more dry peas and more vine than any of the varieties we have yet tried. **1 lb., 25c; 10 lbs., $1.75.**

PINK BEANS—They require about 105 days to mature; therefore, should be planted in climates similar to the Salt River Valley, about the last week in July. Plant 40 pounds of seed to the acre, in rows about 30 to 36 inches apart. Price for hand-picked beans: **1 lb., 25c; 10 lbs., $1.75.**

Cover Crops

SESBANIA (Wild Hemp) — A vigorous annual growing Legume. It thrives in warm weather and will grow on alkali and other poor soils. Sesbania is a very fast growing plant requiring only 8 to 10 weeks from time of germination to time of plowing under. Sow broadcast at the rate of 30 to 40 pounds per acre. One of the best fertilizer crop for summer growth. **1 lb., 25c; 10 lbs., $2.00.**

SWEET CLOVER (Melilotus Alba) or White Blossom Sweet Clover—Used for hay, pasture and green manure as well as fertilizing and renovating worn-out and alkaline soils. Sow in the Spring or Fall at the rate of 20 to 25 pounds to the acre. **Scarified Seed, per pound, 30c; 10 lbs., $2.50.**

MELILOTUS INDICA (Sour Clover)— The best legume with which to build up your soil. It is easily plowed under and very rich as a fertilizer. As a cover crop in citrus groves it has no equal. We offer only the best quality, recleaned and scarified seed. **1 lb., 15c; 10 lbs., $1.25.**

BROME GRASS (Bromis Inermis) — An excellent pasture grass for general range purposes. **1 lb., 60c; 10 lbs., $5.50; postpaid.**

TIMOTHY—Sown in our higher altitudes where it is quite successful. Requires 15 pounds per acre when sown alone. **1 lb., 30c; 10 lbs., $2.50.**

ORCHARD GRASS—A valuable pasture grass for the higher altitudes of Arizona; produces an immense quantity of forage and hay of the best quality. Sow 35 pounds per acre. **1 lb., 45c; 10 lbs., $4.00.**

Liefgreen's Vegetable Plants and Roots

Pepper Plants

CINESE GIANT, CALIFORNIA WONDER, ANAHEIM CHILI and PIMIENTO —From about March 1 until June 1. Per dozens, 35c; per 100, $1.50; postpaid.

Tomato Plants

Grown from selected seeds—EARLIANA, PHOENIX SPECIAL, BEEFSTEAK, BEAUTY, MARGLOBE, NEW STONE, DWARF CHAMPION and DWARF STONE — Ready about March 1 until May 15. Per dozen., 25c; per 100, $1.00; postpaid.

Asparagus Roots

Asparagus is very easily grown. For the small garden set plants 12 inches apart in 2½-foot rows. Set the plants eight or ten inches deep in well fertilized trenches. After frost in the Fall cut the dead tops and mulch the surface. Large healthy roots in stock from January until May. Per dozen, 30c; per 100, $1.50; postpaid.

Please Read Before Ordering

Owing to the expense of packing plants we do not ship orders for less than $1.00. When we ship plants by mail or express we do so at the buyer's risk, and we do not ship plants C. O. D. Prices quoted in dozen and 100 lots are postpaid. Write for quantity prices.

Egg Plants

NEW YORK ROUND PURPLE AND BLACK BEAUTY—From about March 1 until May 15. Per dozen, 35c; per 100, $1.50; postpaid.

Cabbage and Cauliflower

Plants quoted on request. State quantity.

Sweet Potato Plants

PORTO RICAN—Best for Arizona. We can furnish plants from April 1 to July 1. Per dozen, 25c; $1.00 per 100; $6.00 per 1000; postpaid in first, second and third zones. Write for quantity prices.

Rhubarb Roots

GIANT CHERRY—Stalks of large size and excellent flavor. One of the prime favorites in Rhubarb. Large divisions. 25c each; $2.50 per dozen; postpaid.

FOR WORMS AND APHIDS ON MATURING VEGETABLES

Use Liefgreen's Pyrocide Dust

Non-Poisonous and Very Effective.
Non-Injurious to Humans.
1 lb., 40c; 10 lbs., $3.00. Postpaid.

Grape Vines and Berry Plants

Grapes

20c each; $2.00 per dozen. Postpaid or Express Extra. Add 10% to 1st, 2nd and 3rd Zone to cover postage.

BLACK MONUKKA—A seedless black Persian grape much resembling Thompson Seedless, except that the berries average one-third larger and are purplish black when mature.

EMPEROR T—Bunches large, long and rather loose; berry large, oblong, wine colored, very firm; a very late variety and one of the standard shipping grapes.

RIBIER—Berries extra large on medium sized bunches. Color intense blue-black. The most beautiful grape grown. Its flavor and bearing qualities are in keeping with its appearance. Medium.

THOMPSON SEEDLESS — The best known seedless grape, widely planted for raisins and market and a fine home fruit as well. Very large bunches of rather small, greenish-yellow berries, sweet and mild. Early.

ZINFANDEL — Bunches large, compact; berries round, dark purple, covered with a heavy bloom; succeeds well in most any climate. Medium.

BLACK PRINCE — (Rose of Peru) — Bunches very large; berries large, oval; skin thick, brownish black; flesh tender, juicy, rich and sprightly; a fine market variety. Medium.

CORNICHON — Berries very large, oblong; dark blue, almost black, covered with a beautiful bloom; skin rather thick; a good shipping grape. Late.

MISSION—The well-known variety cultivated at the missions by the Spanish Padres; strong sturdy grower, bearing large black berries; valuable for wine. Medium.

MUSCAT—Bunches are large, long and loose; amber when ripe; flesh firm, brittle, excecdingly sweet and rich, fine flavored. Medium.

BLACK MUSCAT—

ALMERIA—Very late white variety and good keeper.

BERRIES

The Boysenberry

This new berry is a fitting companion for the Youngberry. It is almost twice as large as the Youngberry and about ten days later, extending the season for this type of berry. In appearance, other than size, they are very much alike and if possible the flavor is even more delicious than the Youngberry. Set plants 5 or 6 feet apart in rows 8 feet apart for commercial use. In the home garden they may be set closer together in the rows. Each 25c; 5 for $1.00; 12 for $2.00; per 100, $10.00; postpaid.

Blackberries

CRANDALL'S EARLY—A large fruited luscious berry of rich dark color. It is one of the earliest varieties and very productive. Each, 15c; doz., $1.25; postpaid.

Loganberries

Supposed to be a hybrid between the Blackberry and Raspberry, but it is entirely distinct from either of its parents. When fully ripe it is a very dark red, very large, often an inch and a quarter long. 3 for 40c; 12 for $1.50; postpaid.

Youngsberry

This well-known berry is a cross between the Loganberry and the Dewberry. It has the pleasant flavor of the red raspberry, the juiciness of the loganberry and the jelling and canning qualities of the blackberry. Each 15c; postpaid. Doz., $1.25, postpaid.

Strawberries

IMPROVED KLONDIKE — This variety does well in hot sections. It is a vigorous grower, very prolific and yields over a long period. A medium size berry of good flavor and is an excellent shipper. Doz., 25c; per 100 plants, $1.50; postpaid.

WRITE FOR VARIETIES NOT LISTED. WE CAN SECURE SAME IN MEDIUM OR LARGE QUANTITIES.

PROTECT YOUR GARDEN AGAINST FROST, RAIN, WIND, BUGS

HOTKAPS Mature Your Crops Earlier

HOTKAPS protect growing plants against rain, wind, cold, frost, birds, insects and other destructive forces. Each one is a miniature hothouse, maintaining a perfect mulch and forcing growth and development. With HOTKAPS, crops mature 2 to 3 weeks earlier and yield is 10 to 25 per cent greater. They are used on all kinds of small plants in every state of the Union.

HOTKAPS are patented waxed paper cones, easily set out with a convenient steel setter. One man can place 3,000 or more a day. You can be sure of your crops if you use HOTKAPS—they pay for themselves many times over.

Weight: 1,000 pkg. HOTKAPS, 28 lbs.; Steel HOTKAP Setter, 3 lbs. **Prices:** 100 lots, $1.25; 1,000 lots, $8.50; 5,000 lots, $8.00 per 1,000. Steel Hotkap Setter, $1.50; Tin Hotkap Setter, 50; F. O. B. Phoenix.

HOTKAP Home Garden Package

Be the First with a Spring Garden

Protect your plants against weather and insects with HOTKAPS. Have vegetables and flowers weeks earlier. HOTKAP Home Garden Package:

25 Hotkaps with Setter—50c. Postpaid, 65c.

An Individual Hothouse for Every Plant — HOTKAPS.

Winter or Summer-You Can Have a Beautiful Lawn

Success in lawn making requires first of all

GOOD SEED

Liefgreen's Lawn Seeds are thoroughly cleaned and are tested for purity and germination. When you buy Liefgreen's Lawn Grass Seed you avoid failure and disappointment.

DIRECTIONS FOR PLANTING — First level the ground thoroughly and pulverize the soil. Enrich with our Lawn and Garden Fertilizer at the rate of 100 pounds to 3000 square feet. Scatter the seed evenly over the surface at the rate of 1½ to 2 pounds to 10x10 feet for Australian Rye Grass; one pound to 10x20 for Blue Grass; one pound to 500 square feet for Bermuda Grass and one pound to 2000 square feet for White Dutch Clover when planted with other grasses. After sowing spread a light mulch of Horticultural Peat Moss over the surface. The mulch will quicken germination and prevent the soil from crusting. Water carefully and regularly with a fine spray, never allowing the surface to dry out until the grass is up. Plant Rye Grass, Blue Grass and White Clover from September 1st until early Spring and Bermuda Grass during the Summer months.

Australian Rye Grass

An extremely hardy and the most popular Winter lawn grass in the Salt River Valley and similar climates. Our seed is of the highest germinating quality, thoroughly recleaned and sure to please. **Lb., 25c; 10 lbs., $1.25; 25 lbs., $3.00; 50 lbs., $5.00; 100 lbs., $10.00. Write for prices on larger quantities.**

Kentucky Blue Grass

Fancy, recleaned seed of tested quality. Used for Summer lawns in the higher altitudes and mountain districts and in the warmer sections for Winter lawns. **Lb., 40c; 10 lbs., $3.50. Write for quantity prices.**

Bermuda Grass

Used exclusively for Summer lawns in the Salt River Valley and similar climates. We carry a very selected grade of seed, thoroughly recleaned thereby eliminating the undesirable weed seeds. **Lb., 50c; 10 lbs., $4.50.**

Red Top

AGROSTIS ALBA — A fine-bladed grass that is often used with Rye Grass and Kentucky Blue Grass for golf courses and lawn purposes. Also used for pasture grass in the higher altitudes. For pasture, sow 15 pounds per acre. **Lb., 40c; 10 lbs., $3.50.**

White Dutch Clover

Strictly first-class seed, absolutely clean and pure and of the highest quality. Makes a very attractive lawn when mixed with Winter lawn grass. **Lb., 60c; 10 lbs., $5.50. Write for quantity prices.**

Poa Trivialis

Used for golf courses, putting greens and fairways and very satisfactory for lawns in shady places. Leaves are narrow and flat. **Lb., 70c; 10 lbs., $6.50.**

THESE PRICES ARE POSTPAID UNLESS OTHERWISE STATED

Sea Side Bent

AGROSTIS MARITIMA — This is a true creeping bent, and makes a very smooth, uniform lawn, used primarily for putting greens in this section. You will find, however, several successful lawns in the Salt River Valley grown from Sea Side Bent. Our stock of Sea Side Bent is carefully recleaned and is extremely pure and free from weed seeds. Certified (Blue Tag) Seed. **1 lb., $1.50; 5 lbs., $6.50.**

Peat Moss

Peat Moss is a valuable soil improver for all horticultural and agricultural purposes. It consists chiefly of decomposed vegetable or organic matter and increases the humus content of the soil. It absorbs ten times its weight in water, releasing it for the plants in periods of drought. Use Peat Moss liberally on flower and vegetable gardens and on lawns. Mulch roses, fruit trees, etc., to conserve moisture. A bale of Peat Moss when loosened will cover 700 square feet. **Per bale, $4.00 F. O. B. Phoenix.**

For Beautiful Lawns, Flowers and Shrubs Use
LIEFGREEN'S 8-9-6 COMMERCIAL FERTILIZER and BANDINI RED FINE GROW-RITE

LIEFGREEN'S 6-9-6 COMMERCIAL FERTILIZER—Is a scientifically prepared chemical compound having the most necessary elements for the promotion of plant growth. It not only enhances the beauty of the blossoms and the color of the lawn, but as a wonderful stimulant and plant food for vegetables and field crops, flowers, lawns, shrubs and trees. Easily applied as it is in powder form. Quick and unusually lasting results. **5 lbs., 40c; 10 lbs., 75c; 25 lbs., $1.25; 50 lbs., $1.75; 100 lbs., $3.50.**

VIGORO
Complete plant food

Inexpensive—Just a Few Pounds of Vigoro Will Make Your Garden Look Like a Million
It has all the elements plants require from the soil. It's proper nourishment that gives Vigoro-fed plants their great vitality and beauty.

Use Vigoro this year! It costs little and goes far—four pounds properly feeds 100 square feet of lawn or garden area. We recommend clean, odorless Vigoro.

PRICES

100-lb. bag	$4.50	10-lb. bag	.85
50-lb. bag	2.75	5-lb. bag	.50
25-lb. bag	1.60	1-lb. bag	.10

F. O. B. Phoenix

BANDINI

BANDINI COMPLETE SPECIALTY MIXTURES
Use These Complete Plant Foods for Best Results

	2½ lb.	5 lb.	10 lb.	25 lb.	50 lb.	100 lb.
Grow-Rite Lawn & Garden	$ .30	$ .45	$ .75	$1.35	$2.25	$4.25
Rose Plant Food—Complete	.30	.45	.75	1.35	2.15	4.00
Bulb Plant Food—Complete	.30	.45	.75	1.35	2.25	4.25
Azalea Plant Food—Complete (for Acid loving Plants)	.30	.45	.75			
Citrus Plant Food—Complete	.30	.45	.75	1.60	2.35	4.50
Sweet Pea Food—Complete	.30	.45	.75	1.35	2.25	4.25
Mineral Compost—(used for sickly over-fertilized soils	.00	.55	.55	1.05	1.75	3.00

MISCELLANEOUS PLANT FOODS AND CORRECTIVES FOR ALL PURPOSES

	2½ lb.	5 lb.	10 lb.	25 lb.	50 lb.	100 lb.
Amonium Phosphate 16-20	$ .30	$ .45	$ .75	$1.25	$2.25	$4.00
Aluminum Sulphate	.30	.50	.90	2.00	3.50	6.00
Blood Meal—Dried	.30	.45	.75	1.50	2.75	5.00
Bone Meal—Fine	.30	.40	.65	1.10	1.75	3.00
Blood & Bone—Mixed	.30	.45	.75	1.75	2.50	4.75
Calcium Nitrate	.25	.40	.65	1.10	1.75	3.00
Cotton Seed Meal Fertilizer	.20	.35	.75	1.75	1.80	3.25
Gypsum—Agricultural	.10	.20	.30	.60	.85	1.25
Fish Meal Fertilizer	.30	.45	.75	1.25	2.15	4.00
Hydrated Lime	.15	.20	.30	.50	.75	
Nitrate of Soda	.30	.40	.65	1.10	1.75	3.00
Soil Sulphur—Agricultural	.30	.40	.65	1.20	2.00	3.50
Sulphate of Amonia	.25	.40	.65	1.10	1.75	3.00
Sulphate of Pot Ash	.30	.45	.75	1.35	2.25	4.00
Treble Super Phosphate	.30	.45	.75	1.25	2.00	3.50
Sulphate of Iron	.25	.40	.75	1.25	2.25	4.00
Sulphate of Zinc	.30	.45	.75	1.50	2.75	5.00

All Fertilizers and Soil Correctives are priced F.O.B. Phoenix. Write for quantity prices.

Plant Liefgreen's Superior Zinnias

The Zinnia is possibly more at home in the warmer sections of Arizona than any other flower. It is sun-loving, very easy to grow and a favorite in thousands of Arizona gardens. We wish to stress the fact that our Zinnias are absolutely the best strains in existence. The Zinnia is strictly a hot weather plant and should not be planted until March. Plantings may be continued throughout the Summer.

CULTURE—Plant after all danger of frost is over. The seed should be planted about one-half inch deep and the seed bed covered with a mulch of our agricultural peat moss or grass to conserve the top moisture. Plant in rich soil in rows at least three feet apart and thin out plants so they are about 12 inches apart. Never plant Zinnias in the shade, as they delight in the full sunshine. Keep the rows free and clean from Bermuda Grass and weeds and cultivate and irrigate often. To avoid mildew dust the ground around the plants with ground sulphur as soon as the buds appear. If you follow these instructions we know your efforts will be rewarded.

Zinnia Lilliput Pastel Mixture

When we think of flowers for cutting, our minds automatically turn to the pastel shades. Until this past season, there has been no strictly pastel variety in the Lilliput type. In the Pastel Mixture, however, we have incorporated the very lovely soft shades of apricot, peach, creamy yellow, shell pink, delicate salmon, light rose and orchid which are prime favorites with florists and cut flower growers. The plants are 12 to 15 inches in height, neat in habit, compact growing and very free flowering. It is one of the early blooming types, producing flowers about 45 days after seed is sown. **Pkt. 10c; ¼ oz. 35c; 1 oz. $1.00.**

Zinnia Gold Medal Dahlia Flowered Golden Dawn

LIEFGREEN'S GOLD MEDAL DAHLIA FLOWERED ZINNIAS

The DAHLIA FLOWERED ZINNIA is the most popular of all the Zinnia types grown. The large size, beautiful petals, extraordinary colors and good keeping qualities have made them popular with all who grow them. They resemble a Dahlia in appearance and when in full bloom often measure five and six inches in diameter. The variations in the colors are wonderful and we cannot recommend them too highly. We list them in the following colors.

GOLDEN DAWN—Very attractive golden yellow, almost a light orange shade. Rich and colorful. See above illustration.

EXQUISITE—One of the most pleasing shades. Color a light Rose, with deeper Rose center.

GOLDEN STATE—Yellow orange in bud turning to beautiful orange.

ILLUMINATION—A deep soft rose. Very beautiful.

CRIMSON MONARCH—By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous.

ORIOLE—We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages.

CANARY BIRD—Delicate primrose, very large and holds its color well.

DREAM—A fine, deep Lavender, turning to Purple (Mallow Purple), a new, desirable shade in Zinnias.

POLAR BEAR—Very large pure White. Best White in Zinnias. True Dahlia form.

The above varieties: **Pkt., 15c; ¼ oz., 35c; oz. $1.25.**

LIEFGREEN'S GOLD MEDAL DAHLIA FLOWERED ZINNIA MIXTURE—A blend of the very best types of Dahlia Zinnia and sure to please the most critical. Makes an excellent garden show and fine flowers for cutting. **Pkt., 10c; ¼ oz., 35c; 1 oz., $1.25.**

COLLECTION: The entire collection of nine Dahlia-Flowered Zinnias. **$1.00 postpaid.**

ALL FLOWER SEEDS ARE SENT POSTPAID

Plant Liefgreen's Zinnia Seed

LIEFGREEN'S LILLIPUT POMPON ZINNIAS

If you have room for two rows of Zinnias, sow the seeds of the Dahlia-Flowered or Giant Mammoth in the background, and Lilliput Pompon in the front row. This makes a charming combination and will give a greater variety of flowers for cutting purposes. Pompon Zinnias are easily grown and the flowers compare favorably with the Pompon dahlia. Grows 2 feet high.

CANARY YELLOW—Very bright golden yellow.

ORANGE QUEEN—A desert sunset orange. A beauty in any garden.

CRIMSON GEM—Truly a gem—beautiful ruby red.

PURPLE—A royal flower in a rich royal-purple.

SALMON ROSE—Lovely in its modesty. An aristocratic rose in color.

WHITE GEM—Pure white—and a beauty.

MIXED COLORS—Some of all the above and many others. A real blaze of color.

The plants are vigorous and well branched. All of the above: **Pkt., 10c; ¼ oz., 30c; oz., $1.00.**

LILLIPUT ZINNIAS
SPECIAL COLLECTION

Six Varieties, one each of the six colors listed above for only.....40c

(Postpaid)

Liefgreen's Zinnia Lilliput or Pompon

Use our imported Peat Moss liberally in Flower and Vegetable gardens. It lightens heavy soil and conserves moisture. **Per Bale $4.00 F.O.B. Phoenix.**

Liefgreen's Zinnia Arizona Giant or Mammoth Scarlet Gem

LIEFGREEN'S ARIZONA GIANT OR MAMMOTH ZINNIAS

In presenting the giant type we offer a rare collection of striking and desirable colors, enormous flowers. They have smaller flat centers than the Dahlia Flowered, with more loosely placed petals. The petals are decidedly imbricated and the flower from bud to full bloom presents a graceful appearance. Plant the full collection of the following colors:

GIANT LEMON QUEEN—An immense flower and most pleasing in color. The Canary Yellow petals are tinged with Cerise on the lower side, the two shades blending into a variety of lemon tints as the flower develops. It is unique in having a pleasant odor.

GIANT ORANGE QUEEN—A new Orange shade, exceptionally bright in tone. Giant flowers of graceful appearance.

GIANT MISS WILMOT—A beautiful soft Pink. Without doubt the finest Zinnia of this color in existence.

GIANT SCARLET GEM—A large, beautiful, bright Scarlet with fine form and good depth of petals. Very large.

GIANT PURITY—A very large pure white with delightful form.

GIANT LAVENDER GEM—Deep lavender purple.

The above varieties in separate colors, **per pkt., 10c; ¼ oz., 35c; oz., $1.25. Postpaid.**

LIEFGREEN'S GIANT MAMMOTH — Mixed colors. **Pkt., 10c; ¼ oz., 30c; I oz., $1.00.**

SPECIAL COLLECTION
LIEFGREEN'S GIANT OR MAMMOTH ZINNIAS

One each of 6 Varieties.....45c

Liefgreen's Zinnia Novelties

Zinnia Scabiosa Flowered

A new-fashioned modern Zinnia with the will and the character of the Scabiosa predominant. A real beauty—you should have it.

MIXED COLORS—Our mixture contains many exquisite colors, including white, golden yellow, canary-yellow, orange, crimson, and scarlet. Charming and distinctive in the garden and in bouquets. **Pkt., 15c; ¼ oz., 60c; oz. $1.75.**

Zinnia Fantasy Finest Mixed

(QUILLED and CURLED) Fantasy is the most fascinating new Zinnia type introduced in years. The very informal flowers with their quilled and irregularly curled petals are graceful and interesting in the extreme. Colors are unusually bright in shades of red, yellow and orange. One of the most sensational novelties of the year. Finest mixed. **Pkt., 15c; ¼ oz., 40c; oz., $1.25.**

Liefgreen's Tom Thumb Zinnia

The compact plants of this dainty strain are 6-8 inches high and are covered with well-formed flowers of the Lilliput type. There is a complete range of Zinnia colors in this mixture. Excellent for pot use, for borders or for mass planting. Splendid mixture. **Pkt., 15c; ¼ oz., 50c; oz., $1.50.**

Mexicana or Miniature Zinnias

(HAAGEANA) Very charming small semi-double flowers ranging from yellow to mahogany-red shades; fine for rock gardens, beds or borders, grows 10 inches. This little Zinnia will be a surprise to you. Makes the dantiest and most attractive bouquets imaginable in low bowls. Mixed colors. **Pkt., 15c; ¼ oz., 50c; 1 oz., $1.50.**

Gracilliama

TRUE RED RIDING HOOD—Although only one foot high when full grown this is a true zinnia with all its glamour and advantages. Is very free flowering and just as easy to grow as its bigger brothers. Color bright red. **Pkt., 15c; ¼ oz. 35; oz., $1.00.**

Zinnia (Navajo) Gaillardia Flowered Finest Mixed

Another of the newer Zinnia types. The Gaillardia Flowered Zinnia, strongly reminds one of the Double Gaillardia. The flowers are very attractive, of medium size, about 2 inches in diameter, just a good size for cut flower use, and are carried on stems of medium length. The plants are about 2 feet tall and very free flowering. The colors range through the mellow tones of rose, pink, bronze, yellow, orange, lavender, and combinations of these colors. Most of the flowers, in fact, are two toned, with a ring of deeper color toward the center of the flower. Flowers will be produced about 45 days after seed is sown. Mixed colors. **Pkt., 15c; ¼ oz., 60c; 1 oz., $1.75.**

New Crown of Gold Zinnias

This, to us, is the most artistic of all the giant flowered zinnias. The novel bicolor effect has delighted all who have seen it. In each flower the petals at the base are marked with a lightened or contrasting shade which lends great richness to the splendid range of colors. For a richer Zinnia border plant Crown O' Gold Zinnias. Mixed colors. **Pkt., 15c; ¼ oz., 50c; oz., $1.50.**

Zinnia Giant Victory Quilled or Cactus Flowered

The flowers are very large, with velvety quilled petals. The plants are vigorous and well branched. **Pkt., 15c; ¼ oz., 50c.**

Zinnia Giant Picotee Mixed

This Zinnia is in a class by itself. In addition to its being double and large flowered, each petal is distinctly tipped with a darker shade of the same color, making it novel and attractive. Mixed colors. **Pkt., 15c; ¼ oz., 50c.**

Pinkie Cosmos and Fireball Tithonia—Two 1938 Novelties

Cosmos Sensation Pinkie

SENSATION PINKIE is BRAND NEW this season. Delightful Rose-Pink, large fluted petals, growing on long strong stems which reach a heighth of 3 to 4 feet and mature within 8 to 10 weeks.
PINKIE—Pkt., 25c; ⅛ oz., 60c.
SENSATION MIXED COLORS—Pkt., 15c; ¼ oz., 35c.

Cosmos Early Klondike Orange Flare

Tithonia Speciosa Grandiflora Fireball

TITHONIA FIREBALL—Dazzling as a ball of Fire poised high above other flowers, the last word in brilliance of color in a fall blooming plant. Fireball is a very brilliant, vibrant shade of scarlet orange, the petals in dazzling contrast to the clear yellow center. The gaily colored flowers are single, very large, 4½ to 5 inches in diameter, and are carried on fine long stems. The plants are very tall reaching a heighth of 8 or 9 feet, with fairly heavy growth of wooly, grayish green foliage. Neat in appearance and do not become ragged looking. In the lower warm altitudes of Arizona or similar climates, plant as early in the spring as weather conditions will allow. In the higher altitudes start indoors and set out plants after danger of frost. Extremely showy in the garden and an excellent cut flower. Flowers keep five or six days when cut. PLANT FREELY THIS NEW HEADLINER FOR 1938 SEASON. **Pkt., 25c; 5 Pkts., $1.00; 1/16 oz., 40c; 1/8 oz., 60c; 1/4 oz., $1.00.**

THITHONIA - SPECIOSA — (Mexican Sunflower) — BRIGHT ORANGE in color. This is an annual, very popular and successful in Arizona. Height, habit and shape of its flowers remind one of a single Dahlia. Grows six to ten feet tall. PLANT IN SPRING MONTHS for LATE SUMMER AND FALL BLOOMING. **Pkt., 10c; ¼ oz., 50c; oz., $1.50.**

Cosmos

Early Mammoth Flowering. Sow seed early in the Spring. When the plants are about 12 inches high pinch the tops back to make them branch.

EARLY MAMMOTH — Pink, Crimson and White—**Pkt., 10c; ¼ oz., 25c; oz., 60c.**

EARLY MAMMOTH MIXED—Pkt., 10c; ¼ oz., 20c; oz., 60c.

EARLY DOUBLE CRESTED COSMOS—A beautiful double or crested center Cosmos. Flowers are very large and make a striking appearance. About 75 per cent of the plants will produce crested flowers. Mixed colors. **Pkt., 15c; ⅛ oz., 60c.**

KLONDIKE COSMOS—Bloom in the Fall of the year. A handsome flower of brilliant orange yellow, very large. Thrives well in Arizona, but requires a long growing season. Plant early in the Spring. **Pkt., 10c; ¼ oz., 35c.**

Orange Flare

(GRAND CHAMPION GOLD MEDAL WINNER 1935, ALL AMERICAN COMPETITION.) This cosmos has become a great favorite. It has the same vivid orange flower and light green foliage as the Klondike Cosmos, but is much earlier blooming from seed in less than four months. **Pkt., 15c; ¼ oz., 40c.**

Outstanding Marigolds and Arizona Giant Snapdragon for 1938

Marigold Dwarf French Double Harmony Marigold

HARMONY—Gorgeous blooms with cushion-like centers of fluted, deeply cut golden orange petals, surrounded by several rows of reddish brown outer petals. Early and free blooming. Distinct and very choice. One of the finest. **Pkt., 15c; ¼ oz., 35c; oz., $1.00.**

FOR SUMMER BLOOMS—The Marigold is a hardy annual growing from six inches to 2½ feet tall. Flowers in various shades of yellow and orange. Very useful for bedding and for borders. Plant after all danger of frost is over. Cover the seed about one-eighth inch deep and when up thin out to ten or twelve inches apart.

TALL AFRICAN DOUBLE ORANGE—Beautifully formed flowers of gigantic size and bright colors. **Pkt., 10c; ¼ oz., 40c; oz., $1.25.**

TALL AFRICAN DOUBLE LEMON—A pure citrus yellow. Large flower. **Pkt., 10c; ¼ oz., 40c; oz., $1.25.**

TALL AFRICAN DOUBLE MIXED—The above colors mixed. **Pkt., 10c; ¼ oz., 30c; oz., 75c.**

DWARF DOUBLE FRENCH MIXED—Flowers much smaller than the African. Grows about ten inches high and greatly prized for bedding. **Pkt., 10c; ¼ oz., 20c; oz., 50c.**

GUINEA GOLD—The flowers of this exquisite Marigold are loosely ruffled, semi-double and of medium size. The color, a brilliant golden orange, is not found in any other Marigold. As a cut flower it is ideal, especially for bowl arrangement. **Pkt., 10c; ¼ oz., 35c; oz., $1.00.**

Giant Snapdragon (Antirrhinum)

LIEFGREEN'S ARIZONA GIANTS—Snapdragons are one of the most valuable and decorative flowers. Can be easily grown from seed; thrive in any soil and bloom freely. Plant in the open in the Fall or Spring months. If cut back during the Summer the plants will bloom for several years. We offer the following colors in the tall Mammoth flowering types:

QUEEN VICTORIA—A magnificent pure white.
CARDINAL—A beautifu dazzling scarlet.
GOLDEN KING—Giant Golden Yellow.
BRONZE HARMONY—Terra cotta orange, shaded rose.
ROSE QUEEN—A beautiful soft pink.
OTHELLO—Dark maroon, satin sheen, dark foliage.

The following attractive prices prevail for the above mentioned varieties. Named varieties. **Pkt., 10c; ¼ oz., 60c; 1 oz., $2.00.**

LIEFGREEN'S SPECIAL MIXTURE TALL, GIANT FLOWERING SNAPDRAGON—A well balanced mixture of the above colors and many others. **Per pkt., 10c; ¼ oz., 40c; 1 oz., $1.25.**

NEW AFRICAN MARIGOLD

Gigantea — Sunset Giants Mixed

The largest Marigold ever grown averaging 5 to 7 inches across. Flowers are loosely formed, very full centered, with broad, heavy petals gracefully overlapping. Colors range from deep orange through all shades of yellow. Height 3-4 ft. **Per pkt., 25c; ⅛ oz., 50c; ¼ oz., 85c.**

Snapdragon Arizona Giant Mixture

LIEFGREEN'S SNAPDRAGON COLLECTION
One each of above 6 named varieties; 6 **pkts. (60c value) 40c, postpaid.**

Liefgreen's Calendulas and Nasturtiums for 1938

CALENDULA (Pot Marigold)

(POT MARIGOLD)—One of our most popular Winter and Spring flowers and very easily grown. Valuable as a cut flower. Plant from September throughout the Winter months. Space plant about 12 inches apart.

CALENDULA CHRYSANTHA—CHRYSANTHEMUM FLOWERED—The name Calendula Chrysantha is well adapted to this large flower, of a cheerful, exquisite shade of buttercup yellow, and it is an outstanding addition to the Calendula family. The loosely arranged petals droop to give the lovely rounded and graceful appearance found in our favorite chrysanthemums. Its strong, stiff stems make the blooms well fitted for cutting, and combine beautifully with Bachelor Buttons or Blue Delphinium, etc. **Pkt., 10c; ½ oz., 40c; oz., 75c.**

CALENDULA SHAGGY—ORANGE COLORED SHAGGY — The petals are long, deeply fringed or laciniated. Row upon row of these informal petals overlap each other, forming a shaggy like flower of surpassing beauty. In color, it is a warm, deep orange. **Pkt., 10c; ½ oz., 40c; oz., 75c.**

LIEFGREEN'S ORANGE KING—A splendid Calendula. Bright orange red with dark center. Flowers fully three inches in diameter when proprly grown. We can recommend this variety as the best Calendula grown. Insist on our improved types. **Pkt., 10c; oz., 40c.**

LEMON QUEEN—Like Orange King excepting the color is Pure Lemon. **Pkt., 10c; oz., 40c.**

RADIO—A novel and attractive addition to Calendula group. Deep orange in color with petals evenly and prettily frilled. **Pkt., 10c; oz., 50c.**

CAMPFIRE—A superb variety, color deep fiery orange. **Pkt., 10c; oz., 75c.**

DOUBLE MIXED CALENDULA—A splendid mixture of the various shades of lemon and orange. **Pkt., 10c; oz., 30c.**

Liefgreen's New Orange Calendula

IMPROVED CAMPFIRE (SENSATION)—This year we are presenting a vastly improved form of the old favorite CAMPFIRE. Its color is well known. A very deep, strong orange with a distinct scarlet sheen on the upper side of the petals. The blooms have the same regular form of petalage as the older type, but are much larger, measuring at least four inches in diameter. The strong plants produce generously and the flowers have long heavy cutting stems. **Pkt., 15c; ¼ oz., 30c; ½ oz., 50c; oz., 90c.**

Nasturtium Double Glorious Gleam Hybirds, Finest Mixed

The same in habit and growth as Golden Gleam and Scarlet Gleam. As even balanced color range of a glorious assortment of brilliant shades. **Pkt., 10c; 1 oz., 25c; ¼ lb., 60c.**

NASTURTIUMS

A favorite flower and very popular because of the great variety of colors and easy culture. Plant in February and March for Spring flowers and early in the Fall in protected places for Fall blooming.

NASTURTIUMS prefer dry, rather rocky soil, such as we usually call "poor" soil and bear their flowers in such locations in greater profusion than in a rich garden, where they run too much to foliage. This adds to their value for planting over many unsightly places. Do not water too much.

LIEFGREEN'S SPECIAL TALL MIXTURE—This mixture contains the choicest colors of the Tall Nasturtiums, the rich, velvety varieties, and the new hybirds. The flowers are much larger than the old-fashioned kind. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

LIEFGREEN'S SPECIAL DWARF MIXTURE—This superb mixture will give a larger variety of colors in even proportions than any other Nasturtium mixture. Put up from named sorts, and contains many of the new varieties. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

New Double Sweet-Scented Nasturtium

GOLDEN GLEAM—Bush which throws out runners averaging 18 inches. The flowers are double, delightfully fragrant and of an attractive golden yellow color. When at full bloom the entire plant is a blaze of color. **Pkt., 10c; oz., 25c; ¼ lb., 60c.**

SCARLET GLEAM—Double Sweet Scented Scarlet Gleam. Dazzling in color, delightfully sweet scented, superior in type, extra large flowered indescribably lovely. **Pkt., 10c; oz., 25c; ¼ lb., 60c.**

NASTURTIUM—Dwarf Double Gem Mixture) Our GEM MIXTURE is the ideal annual for border and edging use. The plants are truly dwarf and compact, totally without runners. The sweet-scented, semi-double flowers are of good size, and gaily cover the gem-like little plants in an evenly balanced, excellent color range which includes shades of yellow, orange, scarlet, crimson, salmon, cerise, cream, maroon and spotted varieties. The mixture contains both dark and light foliage plants. **Pkt., 10c; oz., 25c; ¼ lb., 60c.**

All New 1938 Sweetpea Seed for Fall 1938 Planting

Varieties tried and proven in the Salt River Valley and adapted to Arizona climatic conditions.

Sweet Peas are probably the most popular flower in America. They are loved by everyone, both for their beautiful coloring and their delightful fragrance. For the best results we advise you to follow our instructions for planting. We offer the following instructions according to our own method of planting.

CULTURE—Avoid dense shade. Select a place in the open where the sun shines at least three-fourths of the day and where the vines may be trained on a trellis. Dig a trench about a foot or 18 inches wide and 18 inches deep. Place about six or eight inches of well-rotted manure on the bottom of the trench. Mix a liberal amount of manure with the soil that has been removed and replace it. After the soil has settled sufficiently, open a trench in the bed about six inches deep and plant one ounce of seed to about 20 to 25 feet of row. During the warm weather cover the seed about two to three inches deep and in cooler weather about one inch is sufficient. Care must be taken during warm weather not to rot the seed with moisture. After planting seed soak the trench thoroughly and follow with a liberal sprinkling of peat moss or dried grass to prevent the surface soil from crusting. After the Peas have grown six or eight inches begin to draw the soil to them, gradually filling the trench. This will necessitate another trench on each side of the row, through which to water the vines during the rest of the season. A peat mulch around the plants will keep them in good growing condition. Frequent cultivation is also necessary. Keep them well watered and at blooming time keep the blossoms picked to insure a long growing season. Ask about our special fertilizer for Sweet Peas.

Liefgreen's Large Early Flowering Spencer

FOR WINTER BLOOMING—When you plant our Early Flowering Spencer Sweet Peas you are planting the earliest and the largest flowering Early Sweet Peas grown.

EARLY FLOWERING SPENCERS are especially valuable for their early flowering qualities. Planted in September and October, they will bloom as early as January, although they may be planted any time during the Fall and Winter months and will bloom four to six weeks in advance of the regular Spencers.

EXPOSITION PINK—Gorgeous rich pink.
BLUE BONNETT—Fine clear blue evenly distributed.
SNOWSTORM—Improved new glistening white.
SHIRLEY TEMPLE—Soft rose-pink—large blooms daintly frilled and fluted.
HARMONY—Bright, clear lavender.
VALENCIA—Sunproof orange.
AMETHYST—Royal purple.
LADY GAY—A delightful shade of soft shrimp pink.
MEADOWLARK — Deep cream — large flowers on long stems.
OTHELLO—Maroon.
ANNIE LAURIE—Deep rich tone of pure rose-pink.
COLUMBIA—Salmon rose standard with white wings.
PRIDE—Cerise—long stems.
JOSIE—Deep pink on a white base. (Illustrated)
RED BIRD—Bright crimson red.
PRICE: Any of the above—**Pkt., 15c; ½ oz., 35c; 1 oz., 60c; ¼ lb., $1.75.**

Sweet Pea Early Spencer Josie

JOSIE—EARLY FLOWERING SPENCER—is without doubt one of the largest and longest stemmed Early Flowering Sweet Peas in existence. The color is deep pink on a white base.

Liefgreen's Giant Spencer Sweet Peas

Will bloom from four to six weeks later than the Early Flowering type.

The following varieties are the best in color, size, fragrance, abundance of bloom and adaptability to Arizona's climatic conditions. Call for these varieties and be assured that you are planting the best:

CHINESE BLUE—Bright clear blue.
FORTUNE—Rich dark blue.
DAMASK ROSE—Deep soft rose.
MRS. A. SEARLES—Rich pink (cerise) merging into orient red.
MASTER CREAM—Deep cream—large flowers and long strong stems.
RUBICUND—Bright crimson scarlet.
AMBITION—Clear lavender — a lovely shade.
WARRIOR—Maroon — deep color — flowers very large.
PIRATE OF GOLD — Golden orange—exquisite.
YOUTH—Large white and pink picotee. Unusual.
PINKIE—Bright rose pink — Mammoth blooms.
JACK HOBBS—Flush scarlet pink on cream ground.
OLYMPIA—Rich deep purple. Very fine.
SMILES—Salmon shrimp pink.
WELCOME—Dazzling scarlet, strictly sunproof. Flowers large and stems extra long.
AVALANCHE—Glistening white.
BLANCHE FERRY — Bright rose and white. Very popular.
PRICE: Any of the above— **Pkt., 10c; ½ oz., 20c; 1 oz., 35c; ¼ lb., $1.25.**

Liefgreen's Special Early Flowering Spencer—Mixed

This mixture is made up of the very cream of the Early Flowering Spencers. Pkt., 10c; ½ oz., 20c; 1 oz., 35c; ¼ lb., $1.00; 1 lb., $3.00.

Liefgreen's Giant Spencer Mixture

In preparing this mixture we are giving our customers all the best varieties in this class and all possible color variations, including many brand new kinds as well. A liberal planting of this mixture will give a most magnificent display of the Giant Spencer types. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., $2.25.**

SPECIAL
Sweet Pea Collection

LIEFGREEN'S GIANT EARLY FLOWERING SPENCER

One each of 15 varieties for only.....$1.50

SPECIAL SWEET PEA FOOD—2½ lbs., 30c; 5 lbs., 45c; 10 lbs., 75c; 25 lbs., $1.25; 50 lbs., $2.25; 100 lbs., $4.25—F.O.B Phoenix.

VIGORO
COMPLETE PLANT FOOD

Inexpensive, Just a Few Pounds of Vigoro Will Make Your Garden Look Like a Million.

Use Vigoro this year! It costs little and goes far—four pounds properly feeds 100 square feet of lawn or garden area. We recommend clean . . . odorless Vigoro.

PRICES: Sealed pkgs. bags: 1 lb., 10c; 5 lbs., 50c; 10 lbs., 85c; 25 lbs., $1.60; 50 lbs., $2.75; 100 lbs., $4.50. F.O.B. Phoenix.

Inoculate Sweet Peas with

NITRAGIN

The Original Soil Inoculator

Sweet peas are legumes—they need the nitrogen gathering legume germs. Few soils contain a natural supply. It is therefore necessary to inoculate. Nitragin hastens maturity, increases yield, produces better flowers, adds fertility to the soil.

GARDEN SIZE—enough to inoculate several or more ounces of seed. Directions on every package. **Price 15c, postpaid.**

SPECIAL
Sweet Pea Collection

LIEFGREEN'S GIANT SPENCER

One each of the above 17 varieties.....$1.25

Use our Imported Peat Moss for soil conditioning. **$4.00 per bale, F.O.B. Phoenix.**

ALL FLOWER SEEDS ARE PREPAID TO ANY POINT IN THE UNITED STATES AND POSSESSIONS.

Vines from Seed and Bulbous Roots

Nothing provides a home-like and restful appearance more quickly than a covering of green VINES for blank walls, bare fences and arbors.

We are listing the most pleasing sorts that are adapted to Arizona conditions, and strongly recommend liberal planting of various vine seeds, which best suit your fancy.

We are particularly recommend the Antigonon Leptopus—commonly called Queen's Wreath. This vine can be grown from seed or bulbous roots. The roots are preferable as a quicker start is obtained.

Alamo

(MILE A MINUTE VINE) A very fast growing and beautiful vine. Plant in the Spring. **Pkt., 10c; per oz., 25c.**

Bean

(SCARLET RUNNER) A popular climber with scarlet flowers. **Pkt., 10c; oz., 15c.**

Antigonon Leptopus

Sometimes called Queen's Wreath and Rosa de Montana. A lovely vine bearing quantities of rose pink flowers in wreaths. Blooms in summer and fall. Thrives in hot sunny situations and if cut down by frost will come up again in spring. **Pkt., 10c.**

3 year old bulbous roots (obtainable during Spring months)—**50c each.**

Australian Pea Vine

(DOLICHOS LIGNOSIS) Climber. Rose and purple color. One of the best climbers for a hot, dry climate. **Pkt., 10c.**

Coboea Scandens

(CUP AND SAUCER VINE) A perennial climber of rapid growth; very valuable for covering trellises, arbor, trunks of trees, etc. Will cling to any rough surface, often attaining a height of 30 to 40 feet in one season. **MIXED COLORS—Pkt., 10c; ¼ oz., 25c; oz., 75c.**

Cypress Vine

(ANNUAL CLIMBER) Height 10-15 ft. A good vine for training on a light ornamental trellis. Bears a profusion of star-shaped scarlet and white blossoms from mid-summer to frost. Fine fern-like foliage. **Pkt., 10c.**

Kudzu Vine

PUERARIA THUNBERGIANA—One of the most rapid-growing vines known. Will grow 50 feet in one season. Slow in germinating; soak seed in hot water over night. Flowers are pea-shaped and rosy purple in color. **Pkt., 10c; oz., 60c.**

Cardinal Climber

Balloon Vine

A climbing annual. Bears a pretty inflated capsule resembling a balloon. White and green. **Pkt., 10c.**

Balsam

(MEMORDICA) A climbing annual with graceful and ornamental foliage; yellow flowers and warted yellow fruits. Thrives in hot weather. **Pkt., 10c.**

Cardinal Climber

One of the best climbing plants for hot, dry weather. Grows to a height of 30 feet, with attractive green foliage covered with bright Cardinal Red flowers. Soak seed in hot water over night. **Pkt., 15c.**

Dolichos

(HYACINTH BEANS) Climber. Splendid annual climber; clusters of purple and white flowers, followed by ornamental seed pods; 10 feet high. Plant in the Spring. All colors. **Pkt., 10c; oz., 30c.**

Quamoclit Cypress Vine

Gourds

MIXED VARIETIES—Strong climbing plants producing many odd shapes and ornamental gourds. **Pkt., 10c; oz., 15c.**

Humulus

(JAPANESE HOP) — A rapid growing ornamental climber covering arbors, trellises, etc., in one season. The foliage resembles the common Hop and is very luxuriant, making a dense vine. Will stand extreme heat and remains green until frost. An annual.

JAPONICUS — Green foliage. **Pkt., 10c; oz., 50c.**

Lantana

A perennial growing from two to three feet high. Grows to a hedge-like plant bearing clusters of verbena-like flowers. Very attractive. Plant seed in February, March and April. The seed will lay in the ground a long time before germinating. When large enough, transplant to permanent beds. Mixed colors, containing Scarlet, Orange, White, Yellow, Rose, etc. **Pkt., 10c; oz., 60c.**

Passion Flower

A hardy perennial climber, very satisfactory for immense growth, as it will cover a porch or small cottage in one season. **Pkt., 10c.**

Madeira Vines

(BOUSSINGAULTIA BASELLOIDES)—A quick growing vine for porches and arbors. Will cover fences, stumps or trellises in a short time. Obtainable during Winter and Spring months.

Plant 4 inches deep as soon as danger of frost is over, in rich soil. The vines reach from 10 to 20 feet in a season, and in late summer bear a profusion of little, fragrant, white flowers.

Madeira Vines make a fine house plant vine in pots, wall pockets, or in window boxes. The vines will hang over about 3 feet. For this purpose a light, airy place is required. They will also grow on water.

Large Roots ____15c each—12 for $1.25
Medium Roots____10c each—12 for $1.00
Small Roots ____ 5c each—12 for $ .50

(All Postpaid)

Morning Glory

CLARK'S EARLIEST HEAVENLY BLUE—A beautiful sky blue color which shades at the center to a golden throat. It is the earliest flowering variety, makes a sparse foliage and is heavily covered with flowers.

In order to get the greatest quantity of flowers from the strain, seed should be planted in a dry sandy location where the plants will receive as little water as possible and they should never be fertilized unless a heavier growth of foliage is required. Plant in the Spring and early Summer. **Pkt., 15c; ¼ oz., 40c.**

Plumosus

(ASPARAGUS FERN)—Fine feathery foliage used extensively for green in boquets. Slow to germinate and seeds should be soaked in water before sowing. **Pkt., 10c; 100 seeds 50c.**

Smilax

A perennial vine which thrives best in a shady location. Very useful for decorative purposes. **Pkt., 10c.**

Morning Glory

MORNING GLORY — Free flowering beautiful climbers with rich and varied colored flowers, very useful for covering lattice work, verandas, etc., where they are exceedingly effective. Soak the seed for several hours in warm water before planting. Plant after all danger of frost.

MAJOR TALL MIXED—Attains a height of 15 feet or more, and comes in shades of Rose, Crimson, Blue and White. **Pkt., 10c; oz., 35c.**

IMPERIAL JAPANESE MORNING GLORY—The best Morning Glory for strong growth and varying colors. Height 15 to 20 feet. **Pkt., 10c; oz., 25c.**

Moon Flower

LARGE WHITE—Splendid rapid growing climbers. The flowers are beautiful and varied and resemble giant Morning Glories. The foliage is luxuriant and makes a growth of 10 to 30 feet a season. The seed of the Moon Flower should have the outer shell punctured and then soaked in water for twelve hours or more to germinate it. Plant during Winter and Spring months. **Pkt., 10c; oz., 60c.**

LARGE BLUE—Pkt., 10c; oz., 60c.

Wild Cucumber

This is a quick growing climber. It is thickly dotted over with pretty, white, fragrant flowers, followed by an abundance of ornamental and prickly seed pods. Plant in the Spring. **Pkt., 10c.**

Plant Liefgreen Superior Flower Seed

ALYSSUM LITTLE GEM

Flowers beautify the home. They are essential to happiness and the small cost expended for them will bring enjoyment and satisfaction to the purchaser. The flower seeds we offer are the best strains of the best varieties which are thoroughly adapted to our climatic conditions by actual trial tests. We buy the finest quality that money can buy from the most reliable growers, and no home is really complete without a flower bed grown from LIEFGREEN'S Selected Flower Seeds.

Light, rich loamy soil is best sulted to flowers. If the soil is of a heavy nature add sand and a liberal scattering of air-slacked lime to form a better texture. Prepare the soil as fine and smooth as possible. The depth of planting flower seeds is very important. Very fine seeds should be planted on the surface and pressed into the soil, then sprinkle over the surface a light mulch to aid germination. Medium sized seeds should be planted ¼ to ½ inch deep. while larger seeds such as Sweet Peas, should go deeper. A light mulch should be spread over all seeds planted, as it is the best method of keeping the soil moist and cool. Water with a fine spray to avoid washing the soil from the seeds. When large enough, thin young plants from 2 to 12 inches apart, depending on the variety. Give them plenty of room to develop, allow plenty of moisture and good drainage and the results will surprise you.

African Daisy

(DIMORPHOTECA AURANTIACA) This showy annual has become a great favorite on account of its easy culture and beautifully colored flowers. They make a very brilliant effect when used for massing or for borders. Plant during the early Fall and Winter months.

AURANTICA—Brilliant orange. **Pkt. 10c. ¼ oz., 40c; 1 oz., $1.25;**
HYBRIDS—Mixed colors. **Pkt. 10c. ¼ oz., 30c; 1 oz., $1.00.**

Arctotis

GRANDIS—Half hardy annual bearing daisy-like flowers. Color pearl white with mauve center. Height 2 ft. **Pkt., 10c; ¼ oz., 20c.**

Asters

Sow Asters in boxes and hot beds in January and transplant outdoors as soon as weather conditions allow. Asters are better suited to the higher altitudes of Arizona.

AMERICAN BEAUTY (Early Flowering)—This is a new type of Aster, exceptionally valuable for its earliness and long flowering season. Mixed colors only. **Pkt., 10c; ¼ oz., 50c; 1 oz., $1.50.**

Aquilega

(COLUMBINE) A hardy perennial of graceful habit, growing about two feet high. The flowers are attractive and beautifully adapted for cut flowers. They may be successfully grown in partial shade. Fall sown seed will bloom the following Spring. Thrives well in Arizona. Double mixed. **Pkt., 10c; ⅛ oz., 40c.**

Anemone

GIANT FRENCH SINGLE MIXED—Easily grown from seed as well as from bulbs. Sow in the Fall or in the Spring, covering the seed lightly with a mulch of sand and finely pulverized fertilizer. **Pkt., 10c.**

Ageratum

BLUE PERFECTION—Fine for borders. **Pkt., 10c.**

CANDYTUFT (Umbellata)
Dainty and Fragrant

Amaranthus Caudatus

(LOVE LIES BLEEDING) Splendid plants for a tropical effect in mixed borders and shrubbery. Flowers in long, drooping panicles, bright crimson. Height, two feet. **Pkt., 10c.**

AFRICAN DAISY

Asparagus Fern

PLUMOSUS—A tender perennial for greenhouse or potted plant use, with long, fine feathery foliage. The sprays when cut, retain their freshness in water from three to four weeks. Seeds start slowly and should be soaked in water before sowing. **Pkt., 10c; 100 seeds, 50c.**
SPRENGERI—A hardy variety. Used as a pot plant. Suitable in groups of potted flowers or in hanging baskets. **Pkt., 10c; 100 seeds, 45c.**

Sweet Alyssum

Without a doubt the best border plant we have. Very hardy and blooms throughout the Fall, Winter and Spring months.
LITTLE GEM—Very dwarf and a profuse bloomer, making a solid mass of white all winter. **Pkt., 10c; ½ oz., 30c; oz., 50c.**
SAXATILE (Basket of Gold)—A hardy (dwarf variety bearing a profusion of golden yellow flowers. **Pkt., 10c; ½ oz., 40c; oz. 75c.**
LILAC QUEEN — Good compact habit and a very pretty deep lavender lilac in color. **Pkt., 10c; ½ oz., 40c; oz., 75c.**
DWARF MIXED—A blend of the dwarf varieties which makes a beautiful border. **Pkt., 10c; oz., 40c.**

Bachelor Button

(CENTAUREA) Commonly called Bachelor or Corn Flower. Plant during Fall and Winter months. Very easily grown and a great favorite as a cut flower. Height from 12 to 24 inches. Mixed Colors. **Pkt., 10c; oz., 40c.**
FLORISTS' BLUE—**Pkt., 10c; oz., 60c.**

Balsam

(LADY SLIPPER) A tender annual used for beds and borders. The foliage is brittle and the wax-like single and double flowers are very attractive. Height two feet. Plant in March, April and May. Mixed colors. **Pkt., 10c; ¼ oz., 25c.**
CALENDULA—See colored section.

Canna

CROZY'S BEST MIXED—**Pkt., 10c.**

Chrysanthemum

Annual. A very showy mixture, containing the most popular shades. Plant during early spring months. **Double Mixed—Pkt., 10c; oz., 45c.**

Calliopsis

Showy and beautiful free flowering annual of easy culture thriving in most any location, and blooms all Summer. Excellent for cutting and massing. Plant from September to May. Bi-Color — Dwarf Mixed—**Pkt., 10c; oz., 40c.**

Candytuft

One of our best plants for edging, bordering and for cutting. A hardy annual bearing large flower clusters during the Spring season. Plant from September throughout the Winter and early Spring months. Height about 12 to 18 inches.
UMBELLATA—White, Lavender, Pink, Crimson, and Mixed. **Pkt., 10c; oz., 40c; One each of the above 4 colors of Candytuft, 30c.**

COLUMBINE

CARNATION MARGUERITE DOUBLE SPECIAL MIXTURE

Carnation

Plant from September until April. Cover the seed lightly and protect until established. Transplant to about 12 inches apart in permanent location. Light shade is best suited to Carnations.
MARGUERITE MIXED — Mostly double flowers. **Pkt., 10c; ¼ oz., 60c.**

Caster Bean

(RICINUS) Very ornamental large-leaved variety. Excellent for shade and for grouping. Plant in the Spring after all danger from frost. **Pkt., 10c; oz., 15c.**

Canterbury Bells

A hardy perennial. Will bloom the first Spring if planted early in the Fall. Mixed colors. **Pkt., 10c.**

Celosia Cristata

(COCKSCOMB)—Annual. Plants are very ornamental and strong growers, producing magnificent combs of velvety flowers. Of easy garden culture and very attractive. Plant in early Spring.
TALL MIXED—A mixture of rich velvety colors. **Pkt., 10c; ¼ oz., 35c.**
TALL CRIMSON — Brilliant crimson combs borne on stems about 2 feet tall. **Pkt., 10c; ¼ oz., 65c.**

Celosia Cristata

EMPRESS—Dwarf red, **Pkt., 10c; ¼ oz., 65c.**

Celosia Plumosa

(FEATHERED COCKSCOMB) — A very fine selection of the Feathered Celosia containing many pleasing shades of color ranging from pale yellow to the deepest crimson. Mixed Colors—**Pkt., 10c.**

Celosia Mixed

A mixture of the Feathered and the Cristata Celosia. Many pleasing colors. **Pkt., 10c.**
COSMOS—See colored section.

Coreopsis

(LANCEOLATA GRANDIFLORA)—Very hardy, growing in most any location. The golden yellow flowers continue to bloom throughout the entire season. Excellent for cutting. Sow seed in the Fall and throughout the Winter months. **Pkt., 10c; oz., 50c.**

DOUBLE COREOPSIS

Centaurea Moschatos

(SWEET SULTAN) The large thistle-like blossoms are borne on long strong stems; when cut will last in good condition for several days; 2½ feet tall. Sow in the fall or winter months so that they may perfect their flowers before very hot weather comes.
MIXED COLORS—**Pkt., 10c; ¼ oz., 25c; oz., 75c.**

Chinese Woolflower

As the name suggests, the flower resembles huge balls of wool. When cut, if hung head down until dry, it makes a beautiful everlasting flower. Easily grown. Plant in early Spring. **Mixed colors—Pkt., 15c.**

Painted Daisies

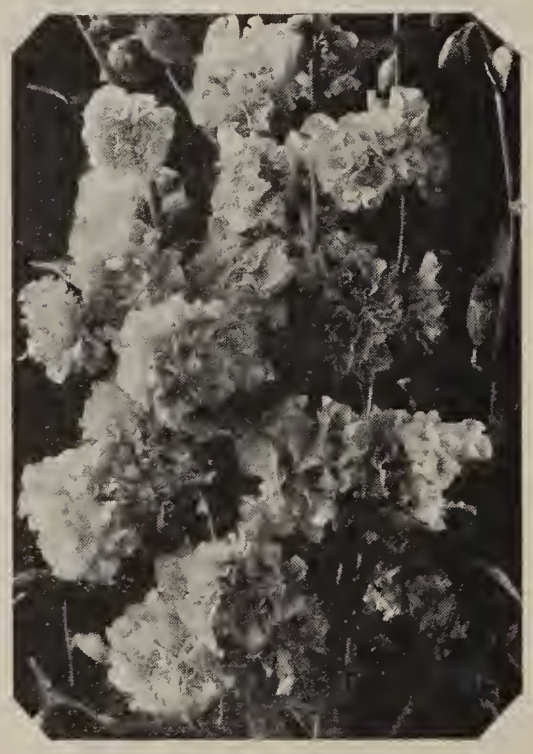
(ANNUAL CHRYSANTHEMUM) These hardy annuals are very showy and effective garden varieties. They grow to a height of about 2½ feet, producing a profusion of very lovely daisy-like flowers. They are easily grown, excellent for cutting purposes. Plant during Fall months.
MIXED PAINTED DAISIES—All colors. **Pkt., 10c; oz., 45c.**

Dianthus

(CHINESE PINKS) Hardy annuals, bearing beautifully colored single and double blossoms. Grows about 12 inches high. Plant early in the Fall in rows where plants are to remain, and thin.
DOUBLE HEDDEWIGI MIXED—**Pkt., 10c; ½ oz. 50c.**
SINGLE HEDDEWIGI MIXED — **Pkt., 10c; ½ oz., 40c.**

Coreopsis Double

What an improvement this variety is over the semi-double of a few years ago. A double that has not lost a bit of the grace and beauty this flower has always possessed, producing almost a continual supply of worthwhile yellow flowers that are readily adaptable to most any type of floral arrangement. **Pkt., 10c; ½ oz., 75c.**



CLARKIA DOUBLE

Clarkia

An annual of easy culture and very hardy. Thrives in sun or shade. Plant in Fall or Spring. Height, 18 inches. **Double and Single Mixed. Pkt., 10c; oz., 60c.**

Dahlia

Sow seeds in beds and transplant to permanent location. **Double Mixed—Pkt., 25c.**

Digitalis

(FOX GLOVE) Particularly adapted to the higher altitudes of Arizona. Will do well in warmer sections when planted in partial shade. **Pkt., 10c; ¼ oz., 30c; oz., 75c.**

Double Daisy

(BELLIS PERENNIS) A hardy perennial which blooms freely in cool weather. Excellent for border, as it grows about four inches high. Plant early in the Fall. **Mixed colors—Pkt., 10c; ⅛ oz., 60c.**

DELPHINIUM

Delphinium

(PERENNIAL LARKSPUR) Beautifully hardy border perennials with noble spikes of handsome flowers; very useful for cut flowers, etc. Sow in the early Fall in the open ground.
GOLD MEDAL HYBRIDS—The finest hybrids to be found in Delphinium and all the lovely blues, lavenders and mauves in this mixture. The plants are vigorous growers, producing full, handsome spikes. **Pkt., 15c; ⅛ oz., 75c.**
DELPHINIUM BELLAMOSUM—A deep royal blue variety. A vivid and intense blue. The finest of the dark blue sorts. **Per Packet, 15c.**

Shasta Daisy

(ALASKA) This is the finest variety. The flowers are very large and splendid for cutting. Plant in early Fall or Spring. Soak seeds overnight in warm water before planting. When plants attain the proper size transplant in permanent bed, allowing about 12 inches between plants. **Pkt., 10c; ⅛ oz., 40c.**

CELOSIA PLUMOSA

GAILLARDIA MIXED

Didiscus Coeruleus

(BLUE LACE FLOWER) Attractive annual plants with beautiful long-stemmed pale lavender flowers that resemble lace. Grows about 18 inches high. As the seed germinates slowly, a light mulch over the surface would be beneficial. **Pkt., 10c; ¼ oz., 50c.**

Euphorbia

VARIAGATA (Snow on the Mountain)—Very pretty annual plant with white and greed edged foliage. Easy to grow. Height 2 feet. **Pkt., 10c.**

HETEROPHYLLA (Annual Poinsettia)—This annual grows 3 feet high and resembles the Poinsettia. The glossy green leaves turn to a beautiful orange-scarlet in midsummer. **Pkt., 10c.**

Evening Primrose

A tall growing plant bearing an abundance of large yellow flowers which expand in the evening. May be planted in partial shade. Sweet scented. **Pkt., 10c; oz., 25c.**

Forget-Me-Not

(MYOSOTIS)—A perennial with small blue star-like flowers in clusters. Plant in the early Spring months and transplant to a cool, moist location. **Pkt., 10c.**

Four o'Clock

A hardy annual of easy culture growing about two feet tall. Very free flowering, bearing blooms of a great variety. Plant during the early Spring months. **Pkt., 10c; oz., 30c.**

GYPSOPHILA IMPROVED GRANDIFLORA

Gaillardia

There is nothing more admired for their rich blending of colors than the Gaillardia. They thrive everywhere and their colors are very gorgeous. The plants grow from one to two feet high and the double daisy-like flowers are very fine for cutting. Will bloom all Summer. **THE DAZZLER** — A charming new Single Gaillardia of immense size. **Pkt., 15c; ¼ oz., 50c. Single and Double Mixed—Pkt., 10c; oz., 75c.**

Gerbera

(JAMESONII HYBRIDS) Large daisy-like blossoms with flower stems rising to a height of about two feet. Is also called Transvaal Daisy. Colors range from white to crimson, pink, rose, yellow and lilac shades. Start carefully under a light mulch in a sandy, well-drained soil if possible. **Pkt., 25c.**

Geranium

Geraniums will bloom the first year from seed if planted early in the Fall. Our mixture contains numerous shades of color, including many of the newest sorts. **Pkt., 25c.**

Geum

(MRS. BRADSHAW—DOUBLE RED) A beautiful hardy perennial producing flowers in profusion all Summer. An excellent keeping cut flower, having long stems. Large, bright orange scarlet double flowers. **Pkt., 15c.**

Gypsophila

(BABY BREATH) Pretty, free flowering elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. Sow during the Fall and Winter months.

ELEGANS GRANDIFLORA—Pure White —Pkt., 10c; oz., 25c.

GYPSOPHILA — Elegans Carmine — A beautiful deep carmine color. Fine for cutting and bouquets and very lasting. Plant same as white. **Pkt., 10c; oz., 35c.**

Godetia

(Tall Double Mixed) Quick growing and profuse flowering hardy annual of showy colors. Easily grown. Sow seed early in open ground in the Fall months. **Pkt., 10c; oz., 50c.**

Hunnemannia

(Mexican or Giant Yellow Tulip Poppy) FUMARIFOLIA—A perennial, flowering the first year from seed and blooming through the greater part of the season. The poppy-like flowers are similar to the California poppy but of a lighter canary yellow. They are excellent for cutting, keeping a long time in water. **Pkt., 10c; ½ oz., 45c.**

Hollyhocks

One of the most majestic and desirable of hardy perennial plants, and a group or line in any garden gives an effect not obtainable with any other plant.

EXTRA DOUBLE FLOWER-MIXED—Seed for this mixture is saved from the very finest extra double flowers only. The best and most gorgeous colored. **Pkt., 10c; ¼ oz., 50c.**

HOLLYHOCK CHATERS—Superb double. Separate colors in Newport pink, white, yellow and crimson. **Pkt., 10c; ¼ oz., 75c.**

GODETIA TALL DOUBLE

Heliotrope

A half-hardy perennial growing 4 to 8 feet high. Small flowers, borne in graceful clusters and very fragrant. Blooms first season from seed if sown early. Forms a large plant and requires a roomy situation. Dark blue. **Pkt., 15c.**

Ice Plant

(Mesembryanthemum) CRYSTALLINUM—The variety is largely grown for glistening foliage. Leaves are large, fleshy and covered with glistening dots. The flowers are small and white. Plant Fall and Spring. **Pkt., 10c.**

Kochia

CHILDSI (Summer Cypress)—A highly ornamental annual having a cypress-like appearance. Its bright autumn coloring has given it two other names, "Mexican Fire Plant" and "Burning Bush." Plant during the Spring months. **Pkt., 10c; oz., 30c.**

Lobelia

CRYSTAL PALACE — Undoubtedly the finest dwarf blue Lobelia for bedding. Plants very compact, profusely covered with rich, blue flowers. Height 4 inches. Plant during Fall months. **Pkt., 10c.**

Linum

(SCARLET FLAX)—Grandiflorum Rubrum—A hardy annual of slender and graceful appearance with fine foliage and bright red flowers. It makes beautiful beds or borders and is largely used for mass display. Scarlet Flax makes a fine Fall and Winter flower, blooming profusely for several months. May also be sown in the Spring. Height 1½ to 3 feet. **Pkt., 10c; oz., 40c; ¼ lb., $1.00.**

PERENNE (Blue Flax)—Slender growing hardy perennial producing a profusion of light blue flowers. Height 2½ feet. **Pkt., 10c; oz., 50c.**

Linaria

(BABY SNAPDRAGONS) A pretty garden annual deriving its name from its resemblance to the Snapdragon. Easily grown and are attractive as cut flowers. Plant during the Fall, Winter and Spring months. Height two feet. Our mixture is made up of blue, rose, lavender, yellow, etc. **Pkt., 10c; oz., 50c.**

LARKSPUR—Liefgreen's Giant Double Stock Flowered

Larkspur

LIEFGREEN'S GIANT DOUBLE STOCK FLOWERED—This is the finest strain of Larkspur in existence. The flowers are very double and are produced on long stems which makes them excellent cut flowers.
LIGHT BLUE—Clear Azure blue; lovely.
DARK BLUE—(Purple) Intense blue.
ROSE—Scarlet Rose.
LILAC—Improved, deep lilac.
WHITE—Pure showy white.
LUSTROUS CARMINE — A beautiful glowing carmine. Produces large flowers on long graceful stems, making very attractive bouquets. **Pkt., 10c; ¼ oz., 25c; oz., 75c.**
MIXED—All the above in a grand mixture. **Pkt., 10c; ¼ oz., 25c; oz., 75c.**
COLLECTION—One each of 6 separate colors. **Six 10c Pkts. for 40c.**

Lupin

One of the most attractive and easiest grown flowers. The plants grow two to five feet high and have handsome spikes of flowers which are fine for cutting. If the plants are not allowed to go to seed they flower for several months in the Spring. Plant during the Fall, Winter and Spring months. Plants should be thinned out to about 12 inches apart, as they grow quite large.
HARTWEGI — Dark Blue, Sky Blue, Roseous Pink and Mixed Colors. **Pkt., 10c; oz., 30c.**
MARIGOLDS—See colored section.

Mignonette

A hardy annual growing from 6 to 12 inches high. Can be grown in shady places. Plant during the Fall, Winter and Spring months. Easily grown.
GIANT MACHET, Mixed—**Pkt., 10c; oz., 30c.**
MORNING GLORY—See colored section.
NASTURTIUMS—See colored section.

Nicotiana

A hardy annual growing three or four feet high and of branching habit. The plants are covered with slender tubular flowers all Summer. They may be used as a background or as single specimens. Popular for its evening fragrance.
SANDERAE MIXED—A new, large, flowering type with various bright-colored blossoms. **Pkt., 10c; ¼ oz., 30c.**

Nemophila

A hardy Arizona annual growing about six inches high. The blossoms are cup-shaped. The seed may be sown from October to March and is very valuable for carpet bedding.
INSIGNA — (Baby Blue Eyes) — Sky blue with white eyes. **Pkt., 10c; oz., 25c.**

Nigella

(LOVE-IN-A-MIST)—A hardy annual, one foot high, with finely cut foliage. Oddly shaped blossoms in blue and white and curious seed pods. Of easy culture.
MISS JEKYLL — Long stemmed flowers which are of a clear cornflower blue; elegant foliage; height, 18 inches. **Pkt., 10c.**

Pansies

To have Pansies at their best the seed should be planted during the Fall months in a semi-shaded location or in flats and when large enough transplanted where they are wanted to bloom. Plant in rich soil and water liberally. The flowers should be kept picked to prolong the blooming period.
PANSY, Good Mixed—Flowers of medium size and beautiful in color. **Pkt., 10c; ¼ oz., 50c.**
PANSY, LIEFGREEN'S GIANT MIXED—A mixture consisting of a selection of giant flowering varieties. The flowers are very showy and the plants of vigorous, compact growth. A very fine strain. **Pkt., 25c; 1/16 oz., 60c; 1/4 oz., $2.00.**

Petunias

For garden culture few flowers equal the Petunia in effectiveness. They are especially beautiful for borders and solid beds. They commence blooming early and will bloom throughout the Spring and Fall months. Start planting in September and throughout the Winter and Spring months. Scatter the seed thinly on an even surface and cover with a light layer of sand or manure mulch. Thin out plants to allow sufficient room for growth.
PETUNIA—Striped and Blotched—A good Petunia for massing in beds and borders, yielding a profusion of brilliantly marked flowers. **Pkt., 10c; ¼ oz., 45c.**
PETUNIA—Improved "Rosy Morn"—The flowers are produced in greatest abundance throughout the Summer and Fall; they are of a lovely clear pink color, contrasted by a broad white throat. Plants form neat compact bushes. Splendid for beds and porch boxes. **Pkt., 15c; ⅛ oz., 60c.**
PETUNIA — Giants of California, Friged and Ruff's—The finest large flowering strain of single Petunias. Magnificent flowers of extra large size, often measuring five inches in diameter, with very deep throat beautifully veined to the base. **Pkt., 25c; 1/64 oz., $1.50.**
PETUNIA — General Dodds—A rich, blood-red; this is a fine color. The flowers are large and erect and the plants large and free blooming. **Pkt., 15c; ⅛ oz., 60c.**
PETUNIA — Nana Erecta Violacea — A new strain. This is a fine deep violet, the texture of the flowers is like velvet and the plant growth erect and compact, like all of this class. **Pkt., 15c; ⅛ oz., 60c.**

PETUNIA GRANDIFLORA STRIPED AND BLOTCHED

Pyrethrum

Hardy perennials which are easily grown and make handsome plants.
GOLDEN FEATHER — Fine compact habit of growth, with bright yellow foliage, largely used for edgings and ribbon borders. Height 9 inches. **Pkt., 10c; ½ oz., 45c.**

Ranunculus

Valuable cut flowers, double and semi-double of the most varied and brilliant colors. If sown early they bloom the first year. Height, one foot. **Pkt., 10c.**

Salvia

(SCARLET SAGE) The most brilliant colored flowers and extremely useful for bedding. Blooms are of fiery red crimson color, continuing to flower for a long time. Tender perennials. Plant in early Spring. **Pkt., 10c; ⅛ oz., 50c.**

Salpiglossis

Very showy bedding or border plants, with richly colored, funnel-shaped flowers, which are purple, scarlet crimson, yellow, buff, blue and almost black. Height one foot. Fine mixed sorts. **Pkt., 10c.**

PANSY LIEFGREEN'S GIANT

PORTULACA GRANDIFLORA DOUBLE

Phlox Drummondi

Showy and most easily raised of all annuals. Produces a continuous supply of attractive flowers in a most wonderful range of colors. Sow seed in the Fall months for blooming throughout the Spring months.

CRIMSON — Beautiful shade of rich crimson.

VIOLET—Uniform bright violet, vivid and distinctive.

FLESH PINK — Bright chamois-pink very lovely.

WHITE—Large, pure, glistening white.

LIEFGREEN'S SPECIAL MIXTURE—Contains a mixture of varieties that will delight you. All the tints of the rainbow, with veins and eyes of contrasting shades. **Pkt., 10c; ¼ oz., 60c.**

SPECIAL COLLECTION—1 each color (4) value 40c; **30c postpaid.**

Poppies

Probably no class of plants enjoys greater popularity and is more widely grown than the Poppies. The wonderful range of brilliant colors of their delicate, gracefully borne flowers is well known. The Poppies are quite hardy and the seed should be sown during the Fall months in a location where the plants are to flower as they do not transplant easily.

CALIFORNIA POPPY—Golden West—Yellow, with orange center. Large flower. **Pkt., 10c; oz., 35c.**

CALIFORNIA POPPY—Brilliant Mixed—A mixture of all the various shades. This mixture makes a very beautiful display of color. **Pkt., 10c; oz., 50c.**

GIANT SHIRLEY POPPY—No flower is so exceedingly graceful and decorates our gardens with such brilliancy of color as this Poppy. Plants about 18 inches tall. Single mixed. **Pkt., 10c; ½ oz., 25c; oz., 40c.**

SHIRLEY—Double Mixed — **Pkt., 10c; ½ oz., 30c; oz., 50c.**

PEONY-FLOWERED—Imposing double globular flowers resembling double Peonies. Splendid range of colors. Mixed—**Pkt., 10c; ½ oz., 25c; oz., 40c.**

PEONY-FLOWERED DOUBLE—Shrimp Pink. **Pkt., 10c; oz., 50c.**

PEONY-FLOWERED DOUBLE—Cardinal Red. **Pkt., 10c; oz., 50c.**

PEONY-FLOWERED DOUBLE—Pansy Violet. **Pkt., 10c; oz., 50c.**

PHLOX DRUMMONDI GRANDIFLORA MIXED

Portulaca

For exhibiting a display of dazzling brilliancy the Portulaca is unrivaled. This little plant delights in the sunshine and will stand considerable drought. Has glossy foliage bearing cup-shaped flowers in brilliant colors. They are best sown in the Spring months as it is strictly a Summer plant. Sow the seed shallow in sunny place and sprinkle lightly.

DOUBLE FINEST MIXED—Flowers perfectly double, of most brilliant colors. **Pkt., 15c; ⅛ oz., 75c.**

SINGLE MIXED—All colors. **Pkt., 10c; ¼ oz., 45c.**

SNAPDRAGONS (ANTIRRHINUM) See colored section.

SWEET PEAS—See colored section.

TITHONIA—See colored section.

Scabiosa

(MOURNING BRIDE OR PINCUSHION FLOWER)—Hardy annual of easiest culture. Profusion of flowers in exquisite shades on long, wiry stems; cut flowers keep in good condition for a long time; 2½ feet high. Deserving a place in every garden, blooms profusely. Plant in the Fall months. Thin or transplant to about 12 inches apart.

AZURE FAIRY—Blue. **Pkt., 10c; ¼ oz., 30c.**

GRANDIFLORA WHITE—**Pkt., 10c; ¼ oz., 30c.**

GRANDIFLORA CRIMSON—**Pkt., 10c; ¼ oz., 30c.**

GRANDIFLORA ROSE PINK—**Pkt., 10c.**

MIXED COLORS—**Pkt., 10c; ¼ oz., 25c.**

Sunflower

HELIANTHUS. Stately, harly annuals of easy culture. Useful for background or as a fence and often grown for the seed. Height, six to eight feet.

NEW RED SUNFLOWER — Is a very apt description of this new variety. The plant is of freely-branching habit, with well-shaped, dark centered flowers of bright chestnut red, merging to a yellow at the tips of the petals. Height six feet. **Pkt., 10c; oz., 50c.**

MAMMOTH RUSSIAN—Is planted largely for seed. It also makes a good windbreak and a very ornamental background. Requires little attention. **Pkt., 10c; 1 lb., 25c.**

ALL FLOWER SEEDS ARE SENT POSTPAID AND ORDERS ARE FILLED PROMPTLY.

Sweet William

DIANTHUS BARBATUS — A well known, attractive, free-flowering hardy perennial, producing a splendid effect in beds and borders with their rich and varied flowers. Of easy culture. Best planted in the Fall months. Height 1 to 1½ feet.

DOUBLE MIXED—All colors. **Pkt., 10c; ¼ oz., 35c.**

SINGLE MIXED—All colors. **Pkt., 10c; ¼ oz., 25c.**

Arizona Poppy Rainbow Group

A mixture of many different shades of brilliant poppies of the Desert and Tulip types. Will cover a large space. **Pkt., 10c; oz., 50c.**

Perennial Oriental Poppies

ORIENTALE DARK RED—**Pkt., 10c; ¼ oz., 50c.**

ORIENTALE NEW HYBRIDS MIXED—Immense showy flowers in rich and vivid shades. **Pkt., 15c; ¼ oz., 60c.**

GLAUCUM (Tulip-Flowered)—Beautiful variety, producing flowers of the most vivid scarlet, effective for beds or masses. Annual. **Pkt., 10c; oz., $1.**

ICELAND POPPIES—Graceful hardy perennials green-like foliage, formed in tufts, from which issue slender stalks about 15 inches high bearing brilliant flowers in endless profusion. Sow during Fall months for Spring blooms. Mixed colors. **Pkt., 10c; ½ oz., 60c.**

Schizanthus

Very beautiful and interesting annuals. This is one of the easiest annuals to raise from seed. Sow in open where plants are to flower. Exceptionally beautiful when in full bloom and literally covered with small orchid-like flowers.

GRANDIFLORA MIXED — **Pkt., 10c; 1 oz., 75c.**

Hunnemannia

(Mexican or Giant Yellow Tulip Poppy) FUMARIFOLIA—A perrenial, flowering the first year from seed and blooming through the greater part of the season. The poppy-like flowers are similar to the California poppy but of a lighter canary yellow. They are excellent for cutting, keeping a long time in water. **Pkt., 10c; ½ oz., 45c.**

LIEFGREEN'S DOUBLE PEON Y FLOWERED POPPY

VIRGINIA STOCKS
Easy to Grow—Quick Blooming

Double Stocks

The Stock is one of our most popular Winter flowers. The plants will go through the Winter uninjured by frost and will bloom from early Spring well on into the Summer months. The Giant Imperial is the very latest improvement in Stocks, throwing fully 85 per cent of double flowers. Sow the seed in the Fall in the open ground or in flats. In thinning out, remember that the weak and delicate plants are those which usually throw the best double flowers.

GIANT DOUBLE IMPERIAL STOCKS—This wonderful new strain of Stocks is of branching habit, making it possible to break long branches of flowers from the main stalk without injuring or destroying the beauty of the plant. The flowers are large and many of them on a stem. The sweet perfume of the Stocks make them most desirable for garden or for vases.

IMPERIAL BLOOD RED—
IMPERIAL CHAMOIS — Ivory, tinted Rose.
IMPERIAL DARK BLUE—Near Purple.
IMPERIAL LAVENDER—Light Lavender.
IMPERIAL ROSE—Deep Rose Pink.
IMPERIAL WHITE—Pure White.
IMPERIAL GOLDEN ROSE—Rose, golden sheen, a beautiful flower.
IMPERIAL YELLOW—Pure Yellow.
Each of the above separate colors.
Pkt., 15c; ⅛ oz., 75c.
IMPERIAL MIXED—All colors mixed.
Pkt., 10c; ⅛ oz., 50c.

Special Double Stock Collection
One of each of above 8 varieties, 90c

Venidium

FASTUOSUM—This plant thrives in Arizona where the climate is similar to its natural habitat. Its growth averages 2 ft. high, has gray silken foliage and deep orange composite flowers with a purple-back center zone inside the ray. Flowers grow to 4 or 5 inches in diameter. They stand well above the foliage and effect a colorful display. Sow seeds in the open ground where they will obtain full sun. **Pkt., 15c; ⅛ oz., 75c.**

VINCA ROSEA

Vinca Rosea

(PERIWINKLE) — Ornamental free-blooming plants with dark foliage and handsome pink and white flowers. The seed germinates slowly. Sow in the Fall and Spring months.

VINCA ROSEA — Mixed colors. **Pkt., 10c; ¼ oz., 40c.**

Virginian Stocks

Very attractive hardy annual, producing a welcome supply of bright colors in the spring and early summer. Sow seed in the Fall. Largely grown in beds and borders. Height 6 to 12 inches.

CRIMSON GEM—An erect, compact variety. Very dwarf. **Pkt., 10c; ¼ oz., 25c; oz., 75c.**
ROSE—Bright rose turning to lavender. **Pkt., 10c; ½ oz., 25c; oz., 45c.**

WHITE — Pure white. **Pkt., 10c; ½ oz., 25c; oz., 45c.**

MIXED COLORS—**Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., $1.00.**

LIEFGREEN'S GIANT DOUBLE IMPERIAL STOCK

Wallflower

Wallflowers should be better known. Their adaptability for out-door bedding and the peculiar sweet fragrance of their flowers should win favor. The oriental coloring of the flowers in their rich reds and yellows is very effective. They are easily grown and last long as cut flowers. **Pkt., 10c.**

VENIDIUM FASTUOSUM

Wild Flower Mixture

A splendid mixture of true annual wild flowers so blended as to give a succession of bloom from early Spring to mid-Summer. All colors may be found in this mixture. For best results seed should be sown in a prepared seed bed. They may be planted from Fall to early Spring—a longer bloom resulting from the Fall planting. If you have a piece of ground you cannot irrigate, or have not time to give particular attention, yet you want to have something beautiful instead of unsightly weeds, we advise you to plant our Wild Flower Mixture. Five pounds of seed is sufficient to plant an acre.

WILD FLOWER MIXTURE —A fine mixture of many species. **Pkt., 10c; oz., 45c; ¼ lb., $1.65; lb., $5.00.**

ZINNIAS—See colored section.

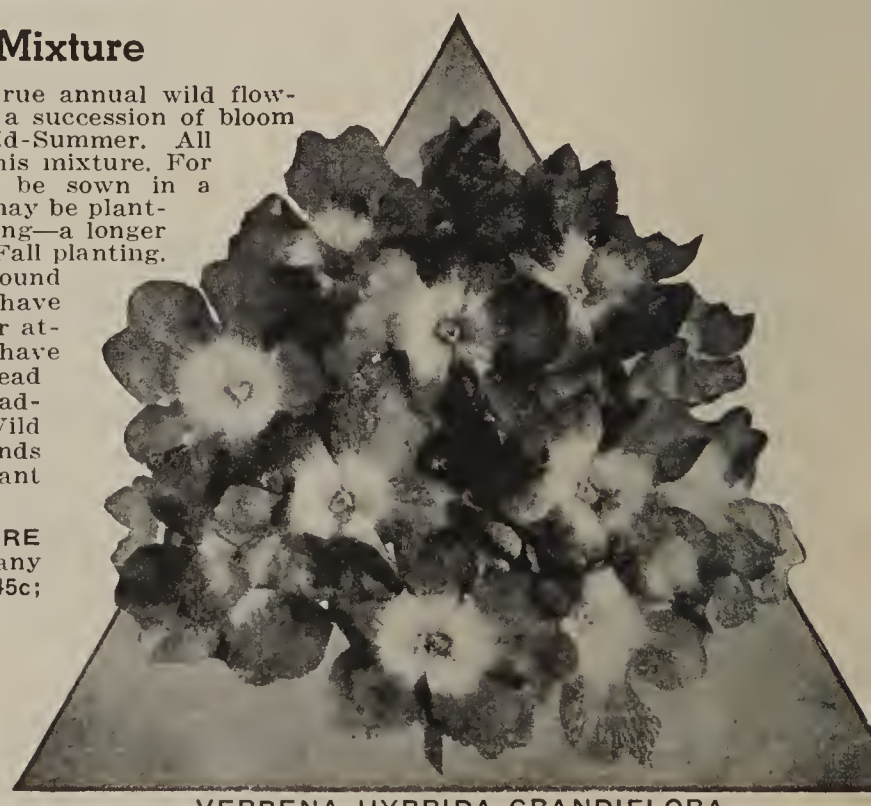
Liefgreen's Beautiful Verbenas

Verbena — (Hybrida Grandiflora) Giant Flowering—This new strain of Verbena is without doubt the largest and the most beautiful Verbena grown. Each flowerlet is very large, which gives the plant a very brilliant effect. Plant during the Spring and Fall months. Plant shallow and cover the seed bed with a light silt or manure mulch. To aid germination keep the seed bed moist until the plants are well out of the ground. Thin out or transplant to allow plants plenty of space for expansion. Verbena will hold over the Summer nicely, but should be trimmed back in the Fall to induce new growth.

LUCIFER—Solid Scarlet, no eye. **Pkt., 10c; ¼ oz., 60c; 1 oz., $2.00.**
LUMINOSA—Beautiful Pink. **Pkt., 10c; ¼ oz., 60c; 1 oz., $2.00.**
DEEP PURPLE—**Pkt., 10c; ¼ oz., 60c; 1 oz., $2.00.**
WHITE—**Pkt., 10c; ¼ oz., 60c; 1 oz., $2.00.**

One each of above Four Colors
30c POSTPAID

MAMMOTH MIXED—**Pkt., 10c; ¼ oz., 50c; 1 oz., $1.50.**



VERBENA HYBRIDA GRANDIFLORA

Straw Flowers
(EVERLASTING)

Acroclinium

(EVERLASTING FLOWER)—Hardy annual everlasting flowers, white and self pink with golden centers. Should be cut the first day they open. Double mixed pink and white. Pkt., 10c; ½ oz., 40c; oz., 75.

Gomphrena

EVERLASTING FLOWER — (Globe Amaranth) — A very attractive globe-shaped flower resembling a clover blossom which, when cut and dried, holds its shape and color. Grows about two feet tall and thrives and blooms throughout the hot Summer months. Mixed colors—Pkt., 10c; oz., 60c.

Helichrysum

HELICHRYSUM

(EVERLASTING FLOWER)—One of the most attractive everlasting flowers. The flowers hang like little bells on the stems and make a pleasing and dainty cut flower either fresh or dried. Mixed colors — Pkt., 10c; ¼ oz., 25c.

Rhodanthe

(STRAW FLOWER)—A free flowering hardy annual, bearing beautiful straw-like flowers in a great variety of shades and colors. To preserve, cut when partly open and hang with heads down until dry. Pkt., 10c; ½ oz., 40c; oz., 75c.

Statice

STATICE SINUATA

SINUATA. An everlasting flower which is increasing in popularity. The plants throw large sprays of flowers which may be dried and make the Winter bouquets. The seed should be kept quite moist until germinated. Plant in the Fall months. Blue, Lavender, White and Mixed Colors — Pkt., 10c; ½ oz., 25c; oz., 40c.

CASPIA — One of the finest of the many varieties. Smaller flowers than Statice of more delicate appearance in bouquet work. Color, pale lavender. Pkt., 15c; ⅛ oz., 75c.

Xeranthemum

DOUBLE MIXED—One of the most attractive and satisfactory everlasting flowers. The flowers are white, purple, yellow and rose and are pretty in the garden or dried. Plant in the open ground in a sunny situation. Pkt., 10c; ¼ oz., 25c.

Straw Flowers

MIXED VARIETIES—A mixture made up of the various varieties of everlasting flowers. Pkt., 10c; ¼ oz., 25c.

GRASSES

PAMPAS GRASS, WHITE — Argentina. 10 ft. A very ornamental plant bearing large silvery white plumes; valuable for certain locations on lawn or among other shrubbery. Clumps, $1 to $3 each.

FOUNTAIN GRASS (Dwarf Pampas)—Valuable for rock gardens and pools. Grows 2 to 3 ft. Plumes of reddish tint. 1-gal. size, 65c; large clumps, $2.50 each.

Liefgreen's Arizona Roses

ALL 2 YEAR OLD and FIELD GROWN

Add 10c per plant up to three plants and 5c each for four plants or more if desired by mail. This covers postage and extra care in packing. Order early.

Bush Roses

AUTUMN—Burnt orange, streaked.... .50

CALEDONIA—Lemon-tinted, changing to pure white..... .50

CECILE BRUNNER — The popular miniature rose; bright salmon pink. Each..... .50

CATALONIA—Orange vermillion..... .50

CONDESA DE SASTAGO (New)—Orange-scarlet and bright yellow .75

COUNTESS VANDAL (Patent No. 38)—Coppery bronze, suffused with gold 1.00

E. G. HILL—Scarlet shading to deep red, does not fade or turn purple. Fragrant ..... .50

ETOILE DE HOLLAND — Clear deep red without shadings, fine high-centered buds..... .50

FEU JOSEPH LOOYMANS — Tangerine yellow with vivid apricot center ..... .50

HADLEY—Rich red, shading to velvety purple. Exceedingly fragrant. Buds pointed ..... .50

HOOSIER BEAUTY—Dark velvety crimson, sweetly scented flowers, double ..... .50

J. OTTO THILOW—Deep rose pink similar to Rose Marie, but larger.... .50

JOANNA HILL — Golden yellow, shading to warm apricot in the center ..... .50

KAISERIN A. VICTORIA — Creamy white. Open flowers, pure white. Extremely double ..... .50

LOS ANGELES—Flame pink, shading to apricot ..... .50

LULU—One of the most exquisite rose buds; coral rose..... .75

MARGARET McGREDY — Turkish red, passing as the flower ages, to carmine rose ..... .50

McGREDY'S SCARLET—Bright rosy red. Long and slender, beautifully shaped buds ..... .50

MISS ROWENA THOM — Oriental rose, shading to golden bronze. Strong grower ..... .50

WILL ROGERS—Dark and velvety crimson maroon; very double and free flowering 1.00

MRS. SAM McGREDY (New) — Beautiful copper-orange, flushed Lincoln red ..... .75

PRES. HERBERT HOOVER — A beautiful combination of pink, yellow and copper ..... .50

RADIANCE — Rose pink and deep flesh. Very free-flowering and a strong grower ..... .50

Bush Roses

RED RADIANCE—Bright rosy red. Large buds, strong grower, and free flowering..... .50

ROSE MARIE — Rose pink. A beautiful bud, long and pointed —free flowering ..... .50

SISTER THERESE (New) — Bronze yellow flowers produced on very vigorous plants .75

MRS. E. P. THOM—Best yellow bedding rose today. Rich lemon yellow, sweetly scented..... .50

TALISMAN — Glorious buds of yellow, pink, scarlet, apricot, old rose. Strong stems..... .50

TEXAS CENTENNIAL (Patent No. 162)—Blood red. A sport of Hoover 1.00

Climbing Roses

BELLE OF PORTUGAL — Immense pearl pink blooms, very vigorous ..... .50

CECILE BRUNNER—Bright salmon pink, strong grower. A popular climber..... .50

DAME EDITH HELEN—A sport of the popular soft pink bush rose ..... .75

HADLEY — Dark, red, shaded velvety purple, very fragrant.... .75

HOOSIER BEAUTY — Deep velvety crimson, exquisite buds, very sweet-scented ..... .50

KAISERIN A. VICTORIA — Creamy white, turning to pure white, fine stems ..... .50

LOS ANGELES—Flame pink, shading to yellow at the base of the petals ..... .50

MERMAID (New) — Fragrant ivory yellow flowers with amber stamens .75

MRS. E. P. THOM (New)—The best yellow bush rose now in a climbing form ..... .50

ETOILE DE HOLLAND (New)—One of the best dark red bush roses in a climber ..... .75

PAUL'S SCARLET—Glowing scarlet. An early and free bloomer..... .50

PRESIDENT HOOVER—Same color as the bush but in a climbing form .75

ROSE MARIE — Long and pointed buds and bright rose pink blossoms .50

TALISMAN (New) — The extremely popular bush rose now in a climbing form ..... .50

Evergreen Trees

ITALIAN CYPRESS—A tall, slender tree with erect branches, having a pillar or columnar effect. A useful subject for gateways, arches, tall borders, etc. Our trees are the true narrow type, grown from cuttings. 1-gal. containers, 2 ft., $1.00; 4 ft., $2.50; 6-7 ft., $3.50.

CYPRESS, ARIZONA — Splendid native ornamental tree of pyramidal habit, never damaged by frost. Foliage blush green. Gal. size, 75c; 5-gal. size, $2.50.

CASUARINA STRICTA — "Beefwood or She Oak" 30 ft.—A fine street tree for all locations. Very hardy. Fast growing, resembling a Pine. 5-gal. containers, 5-6 ft., $2.25; gal. containers, 2-3 ft., 60c.

PINUS HALEPENSIS—"Aleppo Pine"—50 ft. A rapid growing pine suitable for quick effects and excellent for covering hillsides. Potted, gal. containers, 3-4 ft., 75c each; 5-gal., $2.50.

PEPPER TREE—Often grows to a height of 50 feet. The drooping, feathery foliage makes it one of the most beautiful of ornamental shade trees. 1-gal., 75c; 5-gal., $2.50.

EUCALYPTUS, RUDIS (Desert Gum)—This is the most used variety and very valuable for arid regions. Attains a height of 100 feet.1-gal., 50c; 5-gal., $2.00.

EUCALYPTUS, ROSTRATA — A rapid grower. Widely planted as a forest cover, windbreak and shade tree. 1-gal., 5c; 5-gal., $2.00.

STERCULIA DIVERSIFOLIA — Bottle Tree—Makes a fine street tree, being pyramidal in growth with glossy green leaves.1-gal., 75c; 5-gal., $2.50.

CAROB TREE—This is one of the prettiest of evergreen trees but will only grow in the warmest of locations. The shape of the head is round and the foliage is dark green in color. 1-gal. cans 75c; 5-gal. cans, $2.50.

Deciduous Shade Trees

PRICES

Prices of all trees on this page f. o. b. Phoenix, unless otherwise quoted.

5 to 6 feet, Straight (Whips)	$ .75
5 to 6 feet, Branched	1.00
6 to 7 feet, Nicely Branched	1.50
6 to 7 feet, Well Branched	2.00
7 to 10 feet, Well Branched, Extra Good	3.00

All well balanced trees, and sure to please you. Write for quantity prices.

LOCUST, BLACK—This is a quick grower, hardy tree, which blooms freely.

POPLAR, CAROLINA—An upright growing tree with very large, glossy deep green leaves. A rapid grower and popular for street planting.

TEXAS UMBRELLA—A splendid shade tree and one of the most useful for planting where dense shade is desired. Umbrella shaped, of dense growth and uniform habit.

KINGAN—(Fruitless Mulberry)—A good strong growing dense shade tree, but without fruit, thus avoiding the staining of walks under the tree. Extremely rapid in growth.

MULBERRY, RUSSIAN—This is the best Mulberry for shade. Has large leaves, a spreading head, is very hardy and quick growing—**Each, $1.25.**

ARIZONA ASH — Handsome, clean trunked tree with light green foliage. Will do well on most any soil, undoubtedly one of the best deciduous trees.

CHINESE ELM—40 ft. A fast growing tree which does well anywhere in the dry interior section, adapting itself to extremes of heat, cold, drought and alkali.

Vines And Trailers

BIGNONIA TWEEDIANA (Yellow Trumpet Vine)—Slender green leaves and canary yellow trumpet-shaped flowers. **Gal.cans, each, 75c.**

HELIX (English Ivy)—Evergreen climber, dark, glossy leaves, excellent for covering banks, walls, trunks of old trees, etc. **Gal. size,**

FICUS REPENS — Creeping Fig. The best evergreen vine for covering stone, brick or wood, making a close mat of foliage which clings to any surface. Small heart-shaped leaves. Very hardy, thriving anywhere. In gallon containers. **Each, 75c.**

HONEYSUCKLE — Hall's Japan. Evergreen, vigorous climber; flowers white, changing to yellow; delightfully fragrant; it enjoys warm weather. In gallon containers. **Each 65c.**

JASMINUM PRIMULINUM — Slender, green branches and glossy green leaves. Primrose yellow flowers. Gallon cans. **65c each.**

Colorful Bougainvilleas

BOUGAINVILLEA BRAZILIENSIS—Showy plant with brilliant reddish purple flowers and bright green foliage. Gallon cans. **$1.00 each.**

BOUGAINVILLEA CRIMSON LAKE—The most beautiful of the bougainvilleas. Large and brilliant crimson flowers. Gallon cans. **$1.00 each.**

Antigonon Leptopus

CALLED QUEEN'S WREATH and ROSA DE MONTANA—A rapid growing and lovely vine with heart-shaped leaves and bearing quantities of rose pink flowers in wreaths. Blooms in the Summer and Fall. A vine which will thrive in hot, sunny situations and if cut down by frost will come up again in the Spring. A very popular vine in the Salt River Valley and similar climates. Strong 4-year-old roots. **Each, 50c; postpaid in 1st, 2nd and 3rd zones.**

ALL OF THE ABOVE PRICED F. O. B. PHOENIX UNLESS OTHERWISE SPECIFIED

Evergreen and Deciduous Shrubs

ALL SHRUBS ARE QUOTED F. O. B. PHOENIX

ALTHEA (Rose of Sharon) — A most beautiful shrub. They bear flowers in great profusion and bloom freely from June to frost. **Bare Root, 75c each.**

BERCKMAN'S DWARF EVER-GOLDEN ARBORVITAE—6 ft. Of dwarf habit, compact and symmetrical, almost globular as it gets older.. All the branchlets are tipped with a bright golden tint, which is held all through the year. **2-3 ft., balled, $2.50.**

BOTTLE BRUSH — Long red anthers, projecting along the stem, form a cylindrical flower similar in shape to a bottle brush. Hardy and rapid growth. **Gal. containers, 3-4 ft., 75c each.**

BUDDLEIA ("Summer Lilac") — A fast growing, spreading shrub; fragrant rose-purple flowers borne in great profusion in the late summer. **Gal. containers, 65c.**

CASSIA ARTEMESOIDES — Finely cut silvery-gray foliage and clear yellow, sweet scented flowers. **Gal., 75c; 5-gal., $2.50.**

COTONEASTER PARNEYI — Drooping, graceful branches covered with very large orange-red berries and large attractive leaves. **Gal. containers, 60c; 5-gal. containers, $2.50.**

COTONEASTER PANNOSA—Foliage is a soft gray-green and silvery color. White flowers in spring followed by masses of dull silvery red berries, which remain all fall and winter. **Gal. containers, 65c; 5-gal., $2.50.**

CYDONIA JAPONICA (Flowering Quince)—A very showy group of plants flowering in the early spring and carrying a good glossy foliage the rest of the season. **Blood red, 1½-2 ft., 75c. Corallina Salmon red, 1½ ft., 75c.**

EUNONYMUS JAPONICA—A useful ornamental with green, glossy foliage, and easy to grow. When trimmed it makes a wonderful compact plant for tubs. Also used for hedges. Particularly fine for Arizona. **Gal. containers, 65c each; 5-gal., $2.00.**

FLOWERING PEACH (Pink) — Large double flowers. Late.
EARLY RED—A clear ruby-red. Double flowers. **Price, $1.25 each.**

LANTANA—Orange, scarlet yellow and pink and white. **Each, 60c to $1.00.**

ROMAN MYRTLE—For single specimens or small hedge. The foliage is a shining green and highly aromatic. Bears numerous small white flowers, followed by black berries. **Gal. containers, 65c; 5-gal., $2.50; flats, $10.00 per 100.**

PINK CRAPE MYRTLE"—The flowers are crinkled, resembling crepe. This variety is a pastel shade of pink, with a touch of lavender. **Potted, in gal. container, 3-4 ft., 75c each.**

OLEANDER—This is a well known and popular flowering shrub, double and single, in red, white and pink. **1-gal., 50c; 5-gal., $2.00.**

PRIVET, CALIFORNIA — Best of all hedge plants, with shining green foliage. **Gal. cans, 60c each.**

PRIVET, JAPANESE — A large shrub with leathery, dark green, glossy leaves; the best tall hedge plant, making a fast, heavy growth. **Gal. containers, 65c; large balled plants, $2.00; flats, $6.00 per 100.**

PITTOSPORUM—A medium sized evergreen shrub, wide spreading, dense, with deep, glossy foliage. Excellent for massing against the house or wall, and also will make a fine large hedge. **Gal. containers, 75c; 5-gal., $2.00.**

DWARF EVERGREEN POMEGRANATE—A miniature evergreen Pomegranate with fresh green foliage, many bright scarlet flowers and small crimson fruits. **Gal. containers, 75c each.**

The Brilliant-Berried Pyracanthas

P. LALANDII (Burning Bush)—Popular variety, growing slender and erect with a wealth of bright orange colored berries. Handsome foliage. **5-gal. containers, 2-3 ft., $2.50; gal. containers, 60c.**

P. YUNNANENSIS—Dark glossy green foliage acting as a background for great masses of red berries. **5-gal. containers, 2-3 ft., $2.50; gal. containers, 60c.**

SPANISH BROOM—Slender, bright green branches almost devoid of leaves. Bears almost continuously, large, pea-like bright yellow flowers very sweetly scented. Hardy. **Gal. containers, 65c each.**

SPIRAEA VAN HOUTEI, Bridal Wreath—Charming garden shrub of moderate size. White flowers are borne in great profusion in the spring. **Gal. container, 75c each.**

Plant Liefgreen's Bulbs in Arizona Gardens

626

Ranunculus—Giant "Tecolote"

SEND A FEW RANUNCULUS BULBS TO A FRIEND

We prepay charges to any destination in the United States

The Ranunculus is not well known in the Eastern States. A gift of Ranunculus bulbs would be greatly appreciated by your Eastern Flower loving friends. Advise them to plant in the early Spring after all danger of severe frost, and to plant in a sunny location to hasten the flowering period.

RANUNCULUS—Giant "Tecolote" — Top size—mixed colors. **Each, 7c; doz., 75c; per 100, $4.50.**
No. 1 size—**Each, 5c; doz., 50c; per 100, $3.50.**
No. 2 size—**2 for 5c; per doz., 25c; per 100, $1.75.**

Tuberoses

MEXICAN EVERBLOOMING—The most fragrant of all Tuberoses and a wonderful bloomer. Flowers are pure white and clustered from six to a dozen on stiff stems, making them excellent for cut flowers. The bulbs of these multiply from year to year, producing great masses which should be separated and transplanted every three years. They are very hardy and will grow and bloom in the hottest weather. A dozen bulbs will plant a row 6 feet long. **Each, 10c; dozen, 50c, postpaid.**

Caladium

ELEPHANTS EAR—The leaves of immense size on massive stems grow to a height of 4 feet. For a tropical effect this plant has no equal. First size: **Each, 35c; 3 for $1.00, postpaid.**

Cannas

Cannas are the most easily grown and most useful bedding plants we have. They thrive in any soil, but respond quickly to good treatment.
LARGE RED — **Each, 10c; doz., $1.00; postpaid.**
LARGE YELLOW — **Each, 10c; doz., $1.00; postpaid.**
LARGE BEAUTIFUL PINK—**Each, 15c; doz., $1.50; postpaid.**

Madeira Vine

One of the best and most popular climbers for foliage effect. Increases very rapidly. Large tubers. **Each 15c; doz., $1.25.**
Medium size—10c each; $1.00 per doz.
Small size—5c each; 50c doz., postpaid.

Insecticides and Spray Materials

BLACK LEAF 40—Is guaranteed to contain 40% of nicotine by weight. It is a safe and effective SPRAY for APHIDS, THRIPS, LEAF HOPPERS, APPLE RED BUG, PEAR PSYLLA and similar insect pests in the orchard, truck garden, vineyard, flower garden and park.

TRIPLE the strength in following directions on package.

1 oz. bottle, 35c; 5 oz., $1.00; 1 lb. bottle, $2.25; 2 lb. tin, $3.25; 5 lb. tin, $5.85; 10 lbs., $10.60. F.O.B. Phoenix, Ariz.

FISH OIL SOAP—Makes spraying more effective as it enables solution to stick to foliage. **Lb., 25c; 10 lbs., $2.00.**

GARDEN VOLCK—Contains nicotine and soap. A complete spray for home gardener, controlling mealy bugs, scale aphis, thrip, red spider. **3½ oz., 40c; pint, 80c; quart, $1.35; gallon, $3.25.**

NURSERY VOLCK—Effective on practically all insects on ornamental and flowering plants. Odorless, colorless and non-poisonous. Generally 3 level tablespoons full to 1 gal. water. **1 pt., 55c; 1 qt., 80c.**

SPRAYING and DUSTING

The INSECTS and FUNGUS which injure plants in the garden and field, have different methods of doing their damage.

There are FOUR distinct types of troubles to combat, i. e.:

CHEWING INSECTS—Such as FLEA BEETLES, CABBAGE WORMS, POTATO BEETLES and CORN EAR WORMS can be controlled by the use of a spray or dust of ARSENATE OF LEAD, CALCIUM ARSENATE or FLUORINE COMPOUNDS, such as CRYOLITE, DUTOX, etc.

SUCKING INSECTS—Such as APHIS, THRIP, PLANT BUGS and LACE WINGS may be controlled by a DUST or SPRAY containing NICOTINE, PYRETHRUM, CUBE or ROTENONE, such as BLACK LEAF "40," RED ARROW, PYROCIDE DUST, etc.

SCALE INSECTS—Such as SAN JOSE SCALE, SOFT BROWN SCALE, ROSE SCALE, etc., may be controlled by the use of LIME SULPHUR SPRAY or sprays containing oil, such as VOLCK, etc.

FUNGUS DISEASES—Such as MILDEW, BROWN ROT, etc., can be controlled by the use of SULPHUR as a dust and LIME SULPHUR and BORDEAUX MIXTURE as a spray.

ANTS—Ants troublesome in the household are controlled by the use of poison syrups, such as ANTROL, ANT TAT TRAPS, etc. The LARGE RED or HARVESTER ANTS are controlled by the use of CARBON BI-SULPHIDE or ARSENICALS properly mixed and applied, such as LIEFGREEN'S SUPER-STRENGTH ANT POISON.

GRASSHOPPERS and CUTWORMS are controlled by the use of a specially prepared poison mash to be broadcast over the area infested. We recommend SNAROL.

MATURED VEGETABLES—When arsenicals are prohibited on matured vegetables, use PYROCIDE DUST (Non-poisonous) for WORMS, and APHIDS.

IF YOU ARE IN DOUBT AS TO WHAT IS INJURYING YOUR PLANTS, SHRUBS, or TREES, call or write us, giving as accurate description as possible of insect and damage, and we will, to the best of our ability, and our many years of experience, advise you as to the proper spray or dust.

RED ARROW—Kills chewing and sucking insects safely—contains Pyrethrum, Derris and soap in convenient form. Mix in water according to directions and spray. **1 oz., 35c; ¼ pt., $1.00; pt., $2.50; qt., $4.00; gal., $12.00.**

BUG-FOIL — Super-strength Garden-Spray, effective for both chewing and sucking insects. **1½ oz., tube 35c; 4 oz., bottle, 85c; 8 oz. bottle, $1.25.**

NICO-FOIL—Prepared Nicotine Spray, easy to use. Contains soap spreader. For many species of Aphids, Leaf Roller, Thrips. **1½ oz. bottle, 20c; 4 oz., 35c; 8 oz., 65c.**

MILDEW-FOIL—Activated Mildew Spray for use on roses and certain other plants infected with Mildew, Black Spot and certain other Fungi. **4 oz. bottle, 35c; 8 oz., 65c.**

ACME NIK-EMO—This spray is put up especially for the home garden and controls mealy bugs, scale aphis, thrips, red spider and many more hardy insects infesting roses, shrubs, trees, etc. **4 oz., 35c; pt., 65c; qt., 95c.**

ANT-FOIL—**4 oz., 15c; 8 oz., 25c.**

LIEFGREEN'S ANT POISON—For large red ants in the yard or field. In powder form, very effective. **1 lb., 25c; 5 lbs., $1.**

CYANOGAS—Dust or granular form—for large red ants, etc. **1 lb. can, 70c; 5 lb. can, $2.50; 25 lb. drum, $8.50; 100 lb., $21.00.**

TAT ANT TRAPS—Destroys both sweet and grease eating ants. Safe to use in the home. **Each, 10c; 12 for $1.10.**

ANTROL The National Ant Control

The Antrol system is composed of small glass containers and a special formula of syrup. Ants transmit the mild poison to the queen in the nest and soon the entire colony is destroyed.

Ready-Filled Antrol Set

The ready-filled Antrol Set consists of four patented glass feeders filled with Antrol. This set has the advantage over the regular set of being ready to use as purchased. Price **40c.**

REGULAR ANTROL SET—The regular Antrol set consists of four special glass containers and one 4-oz. bottle of syrup—enough for two fillings. Price, **65c.**

ANTROL SYRUP—**4 oz. bot. 20c; pt., 50c; qt., 90c; postage extra.**

Antrol Ant Trap

Kills both sweet and grease eating ants, as it contains two kinds of specially prepared materials. Ready to use by simply punching out the perforations on the side of the can. Most effective and lasting ant trap ever devised. **Antrol Ant Traps — ready to use —each 10c; 12 for $1.10.**

$1000 Guaranteed Products

ROACH KILLER—Absolutely guaranteed to kill Roaches and Water Bugs when properly applied. **3 oz., 35c; 7 oz., 65c; 16 oz., $1.25. F.O.B. Phoenix, Ariz.**

MOTH KILLER—Kills moths and their eggs. **Pint 75c. F.O.B. Phoenix, Ariz.**

RAT & MOUSE KILLER—Effective. **4 oz., 35c. F.O.B. Phoenix, Ariz.**

NICOTINE DUST No. 10—10% Black Leaf 40 in dust form.

1 lb., 40c; 5 lbs., $1.25; 25 lb., steel drum, $4.00; 50 lb. steel drum, $7.50; 100 lb. steel drum, $14.00.

FLUOCIDE DUST—Non-arsenical dust for worms, beetles, alfalfa looper. Use on crops not too close to harvest. **1 lb., 30c; 5 lbs., 75c; 50 lbs., $4.75; 100 lbs., $9.00.**

CALCIUM ARSENATE—Use at the rate of 10 to 15 pounds to the acre on lettuce before heading for green worm. Recommended for eating insects on peas and other vegetables. **4 lbs., 50c.**

SUPER-ADHESIVE DUST MIXTURE—Special dust for lettuce, peas, tomatoes, etc. For control of many chewing insects including Lettuce Loopers, Alfalfa Loopers, Pea worms, Tomato Fruit worms and Corn Ear worms. **50 lb. bags, $3.50; 100 lbs., $6.50.**

ARSENATE OF LEAD—We unhesitatingly recommend Arsenate of Lead as being the best means of ridding trees and plants of all Leaf-eating insects, such as Codling Moth, Potato beetle, Cabbage worm, etc. **Lb., 30c; 4 lb. pkg., 75c.**

DRY PYROCIDE DUST — A powerful NON-POISONOUS dust. Kills worms, Aphids and other insects and is non-injurious to humans. Can be used freely on maturing vegetables crops. **1 lb., 40c; 10 lbs., $2.50; 50 lb. bag, $8.00; 100 lbs., $15.00.**

SODIUM FLUOSILICATE—Used very successfully in combating Mexican bean beetles, striped cucumber beetles, house ants, roaches and other insects. **1 lb., 30c; 5 lbs., $1.25.**

BORDEAUX MIXTURE (Dry)—The best fungicide for curing and preventing black rot, mildew, blight, leaf curl, scab or other fungoid diseases on fruits and plants. 1 lb., will make 5 gal. liquid. **Lb., 30c; 4 lb. pkg., 50c.**

SUPER ELECTRIC SULPHUR — Used principally to control and prevent mildew on grapes, roses, melons, vines, etc. **Lb., 10c; 10 lbs., 75c; 50 lbs., $2.25; 100 lbs., $4.25; F. O. B. Phoenix.**

DRY LIME SULPHUR—For dormant spray use 12 to 15 lbs. to 50 gal. water. For summer Spray 3 to 4 lbs. to 50 gal. water. **Lb., 35c; 5 lbs., $1.45.**

Dead Sure Rodent Destroyer

This rodent destroyer is in the form of a paper cartridge. After setting the fuse alight, place the cartridge down the burrow and the pests are gassed. Package of one dozen, **60c.**

Gopher-Gas Balls

Are used by lighting and rolling into the burrows of the gopher, the same as the Gopher Candle. **Per doz., 40c; box of 125, $3.25.** Can be sent by mail.

GOPHERSCENT—Poisoned raisins and grain. A particularly effective poison food for Gophers. **8 oz. pkg., 35c.**

POISON BARLEY—For Gophers, etc. **1 lb., 25c; 5 lbs., 75c.**

Snarol

A prepared meal to broadcast on the ground for the control of snails, cut worms, etc. Will not deteriorate from rain and is non-injurious to vegetation. **1½ lbs., 25c; 4 lbs., 60c; 15 lbs., $1.95; 50 lbs., $4.50.**

SODIUM ARSENITE—For ants and termites. **1lb., 30c; 5 lbs., $1.25.**

WHITE ARSENIC—Used primarily for making poison mash bait for Grasshoppers, etc.**1 lb., 15c; 5 lbs., 60c.**

PARIS GREEN—For Grasshoppers, cut worms and tomato worms. **1 lb., 50c; 5 lbs., $2.25.**

ALL ITEMS ON THIS PAGE PRICED F. O. B. Phoenix — Postage, Express and Freight extra.

Pet Stock–Foods, Remedies and Supplies

Bird Foods

Liefgreen's Roller Canary Mixture.
Liefgreen's Parakeet Mixture.
Recleaned Straight Canary Seed.
Dwarf Essex Rape.
Large Yellow Millet.
Small Yellow Millet for Pinches.
Sunflower Seed for Parrots—Thoroughly recleaned.

All of the Above Prices: 1 lb., 25c; 10 lbs., $1.40; postpaid.

COUNTER PRICES—F. O. B. Phoenix—1 lb., 15c; 2 lbs., 25c; 5 lbs., 50c; 10 lbs., $1.00.

Bird Remedies, Specialties, Etc.

RED GRAVEL—All birds need gravel strewn in the bottom of the cage. Per pkg., 30c.

SILVER GRAVEL—30c.

ORANGE COLOR FOOD—To be fed during the moulting season. It darkens the feathers a beautiful color. Pkg., 30c.

MITE POWDER—May be used for any cage bird. Pkg., 30c.

NESTING FOOD—For the baby birds .30c.

CUTTLE BONE—To sharpen the bill .12c.

CUTTLE BONE HOLDERS—12c.

NESTING HAIR—Makes a comfortable nest. .12c.

DEFIANCE MOCKING BIRD FOOD—The purest food obtainable for Mocking Birds, Robins, Nightingales, Thrushes, Black Birds, Skylarks and other soft billed birds. Tin, 40c.

BIRD MANNA—Each, 15c.

The above postpaid

Pruning Shears for Every Purpose

SNAP CUT PRUNER—It out-wears all other pruners on the market. Makes a perfectly clean cut on large or small branches. All steel construction—cannot break or bend. Blade is easily honed and will stay sharp. 8 in. long, postpaid $2.00; 6 in. (Ladies), postpaid $1.50.

PARTS FOR SNAP CUT PRUNER

Blades, each	$ .75
Clip, each	.05
Spring and Rivet	.10
Blade Bolt and Screw	.15
Saddle and Screw	.20

CALIFORNIA PATTERN—A low priced shear for light pruning. Cast iron handles with hardened polished blade. Postpaid, $1.00.

CITRUS CLIPPERS—Harvey No. 20—Length, 5 inches. Postpaid, $1.75.

GRAPE THINNING SHEARS—No. 7436—Made of solid steel. Length 7 inches. Price each, postpaid, $1.00.

WISS GRAPE PRUNING SHEARS—No. C-4—Length 7½ inches. Shear of sturdy construction, with curved oval blades. Each, Postpaid, $1.50.

TREE PRUNERS—RHODES—Full length 26 inches: length of handles 19 inches; shipping weight each, 4 lbs. Price $4.50, postage extra.

FRANCO TREE PRUNER—Full length 25½ inches. Length of handles, 20 inches; shipping weight 3½ lbs. Price $6.50, postage extra.

ACME TREE PRUNER—Full length 25 inches. Length of handles, 19 inches; shipping weight, 2½ lbs. Price $3.00, postage extra.

PRUNING SAWS—DISSTON'S TYLER PATTERN—No. 38—Length of blade 12 inches. Each, postpaid, $1.60.

PRUNING SAWS—DUPLEX PATTERN—No. 40—Length of blade 16 inches. Each, postpaid, $1.60.

WRITE FOR OUR FREE 1938 FARMERS' SYSTEM CALENDAR

Lovely Picture Calendar — Contains Useful Information on Farming with Space for Memorandums.

"DOGZOFF"

Copyright 1933

Discourages dogs, keeps them from places where they are not wanted. Price, 65c postpaid.

Bulk Dog Foods

PURINA COMPLETE DOG CHOW in Large and Small Checkers—1 lb., 15c; 2 lbs., 25c; 5 lbs., 60c; 100 lbs., $9.50; f. o. b. Phoenix.

SPRATT'S FIBO for Young and Old Dogs—1 lb., 15c; 7 lbs., $1.00; 50 lbs., $6.50; 100 lbs., $13.00; f. o. b. Phoenix.

SPRATT'S OVAL—1 lb., 15c; 7 lbs., $1.00; 50 lbs., $6.50; 100 lbs., $13.00; f. o. b. Phoenix.

SPRATT'S DOG CAKES—1 lb., 15c; 8 lbs., $1.00; 50 lbs., $6.50; 100 lbs., $13.00; f. o. b. Phoenix.

WE CARRY AT ALL TIMES A COMPLETE STOCK OF THE FOLLOWING ITEMS NOT LISTED HEREIN:

SPRATT'S DAG and CAT REMEDIES.
SPECIAL FOODS FOR PUPPIES—DOG.
FOODS FOR VARIOUS SIZES AND TYPES OF DOGS—in bulk and always fresh.
DOG ACCESSORIES.
GLOVER'S REMEDIES for Dogs.
DELCREO REMEDIES for Dogs.
SPRATT'S and FRENCH'S BIRD FOODS and REMEDIES, SPECIALTIES, Etc.

Citrus Picking Bags

No. 5—½ box size, $2.50; $2.65 Postpaid.
No. 5—¾ box size, $2.75; $2.90 Postpaid.
No. 5—4/4 box size, $3.00; $3.15 Postpaid.

TREE LABELS — COPPER WIRED — 3½ in. long—100, 35c; 1000, $2.75.

POT LABELS — Plain — 100 (4 in.) 35c; 100 (6 in.) 40c; 1000 (4 in.) $2.50; 1000 (6 In.) $3.25.

EX PAN PLANTING POTS — Made of tar paper for growing early vegetable plants for transplanting to the field. 2x2x4, per 100, 75c; per 1,000, $4.75; 3x3x4, per 100, $1.00; per 1,000, $6.50; F. O. B. Phoenix.

We are headquarters for:

SEEDS, BULBS and PLANTS

Insecticides
Garden Tools
Fertilizers
Soil Correctives
Sprayers and Dusting machines
Raffia
Tree and garden labels
Flower pots and colored pottery
Poultry hardware
Poultry feeds and remedies
Bird and pet Feeds and remedies
Lawn Mowers and garden Hose
Dog and cat supplies
Lawn and garden Sprinklers
Grass and Hedge Shears
Tree Seal
Gopher Traps and Exterminators
Ant and Insect Powders and many other articles.

Pulvex Powder and Soap

FOR DOGS AND CATS

PULVEX FLEA and LICE POWDER—2 oz. shaker can—postpaid, 55c.

Pulvex Dog Soap contains the same active flea-killing agent found in Pulvex Flea Powder.

PULVEX DOG SOAP—In metal container—postpaid, 55c.

Pulvex Combination Worm Capsules

12 Capsules in box. Postpaid, 80c.

One Spot Flea Killer

Put on one spot only, is harmless to puppies and kittens, baby chicks and poultry. Do not use on canaries or parakeets. Dust only one spot the size of animal's footprint. 30c and 55c, postpaid.

Fish Food and Supplies

Aquarium Fish Food	$ .12
Tropical Fish Food	.12
Turtle Food	.12
Wafer Fish Food	.12
Aquarium Cement	.60
Dried Ground Shrimp—Per lb.,	1.00
Natural Aquarium Fish Food—Lb.	.40

Above postpaid

Catnip Mice

Each 12c postpaid

WRITE FOR PRICES AND DESCRIPTIVE LITERATURE

Garden Requisites for Satisfactory Gardening

BANDINI WHITE WASH — A dry white powder when mixed with water and properly applied, will give a snow white coat that will stick and NOT RUB OFF. Used for painting trees for sun protection, fences, out buildings. etc. FULL INSTRUCTIONS WITH EVERY PACKAGE. 2½ lbs., 30c; 5 lbs., 45c; 10 lbs., 75c; 25 lbs., $1.25.

PRUNING COMPOUND—TREE SEAL—For covering fresh cuts or bruises on trees. Will aid nature in healing wounds without retarding the growth. Valuable for Citrus trees. 1 pt., 30c; qt., 50c; gal. can, $1.50; postage extra.

TREE TANGLEFOOT—Protection from climbing insects. Lb. can, 65c; 5 lbs., $3.00; 10 lbs., $5.65. Postage extra.

YUCCA TREE PROTECTORS—For protecting Citrus and other trees from frost, insects, animals, etc.

	Weight per 1000	Price per 100	Price per 1000
12 in.	75	$1.50	$12.00
18 in.	125	1.75	15.00
24 In.	150	2.00	18.00

F. O. B. Phoenix, Postage Extra.

MACABEE GOPHER TRAPS — This is the most convenient gopher trap yet manufactured. It is easy to set, small, and can be extended far down into the hole. Price 25c each; $2.50 per dozen.

GRAFTING WAX — F. O. B. Phoenix, ¼ lb., 25c; ½ lb., 40c; 1 lb., 75c.

BUDDING CLOTH—75c yard; postpaid.

SPAGNUM MOSS—For packing. Per bale, $2.50; F. O. B. Phoenix.

GREEN MOSS—For lining hanging baskets. Per lb., 50c; postpaid.

Write for prices of bale lots.

PEAT MOSS—Horticultural soil conditioner. Per bale, $4.00; F. O. B. Phoenix.

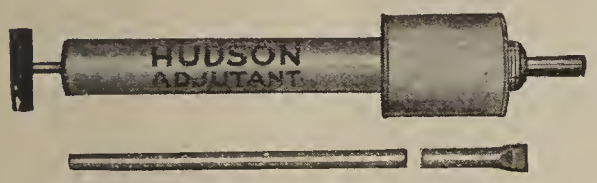
RAFFIA—BEST GRADE—Lb., 30c; 10 lbs., $2.50. Write for quantity prices.

BINDER TWINE—Price—Tarred: 5 lb. balls, 85c each; plain, 75c each.

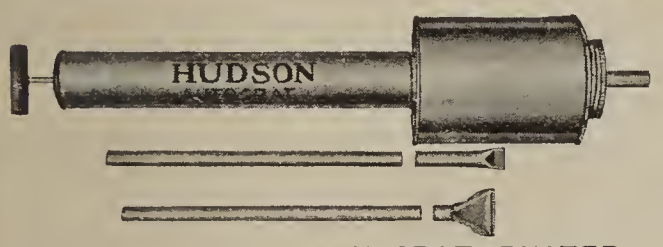
Sprayers and Dusters

Tip Top Duster

The Tip Top Duster is unquestionably the ultimate in satisfactory performance. It is a real duster that will effectively apply all powders, dust, and sulphur, in the most scientific and economical manner. For real satisfaction use a Tip Top. Capacity, 22 pounds. **Price $18.50; F. O. B. Phoenix.**



No. 664—HUDSON ADJUTANT DUSTER—Compact enough for use in stores, offices, restaurants, hotels, etc. Ample power and capacity for garden and field, in the poultry houses, etc. Handles all types dry powdered insecticides efficiently. Powder reservoir 3½ inches diameter, 4 inches long. Shipping weight 3 pounds. **Price, 60c, F. O. B. Phoenix.**



No. 667 — HUDSON AUTOCRAT DUSTER — This pattern is similar in mechanical principle to the No. 664, but has larger container and correspondingly greater capacity. Shipping weight 5 pounds. **Price, $1.30, F. O. B. Phoenix.**

No. 120G

2½ Gallon Galvanized

The HUDSON THRIFTY Sprayer is intended for the small home owner or "Suburbanite" whose work does not justify the investment in one of the larger capacity outfits, or the labor in handling it. Handles all solutions very effectively. **Price, $4.15, F. O. B. Phoenix.**

No. 660 — HUDSON SIGNAL DUSTER — A favorite for use about the home in the war on roaches, ants, water-bugs and other crawling insects. Handles all insecticides in powder form very efficiently. Shipping weight 2 pounds. **Price, 40c, F. O. B. Phoenix.**

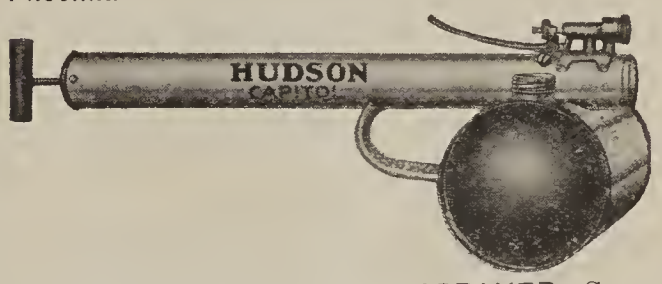
Perfection Sprayer

No. 110 GF and No. 110 BF

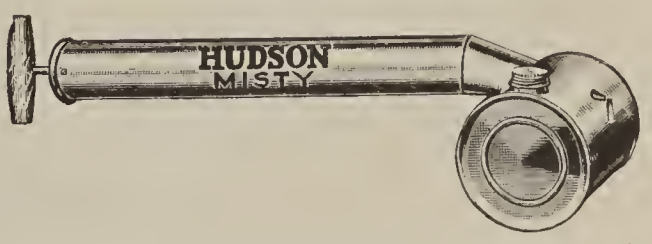
The Hudson Perfection is the highest pressure compressed air sprayer made. Used for spraying small orchards, vineyards, truck gardens, field and row crops, flowers, shrubbery, trees and other foliage. Applies whitewash, cold water paints, shingle stain, and wall sizing. Aphis Nozzle for controling bean beetle, aphis and similar pests. Undersides of leaves are reached easily. Capacity 4 gallons. 2-ft. brass extension rod. Any spray from fog to solid stream. Shipping weight: Galvanized, 12 lbs.; Copper, 11 lbs.

No. 110 GF—Galvanized Tank. Price $8.00.

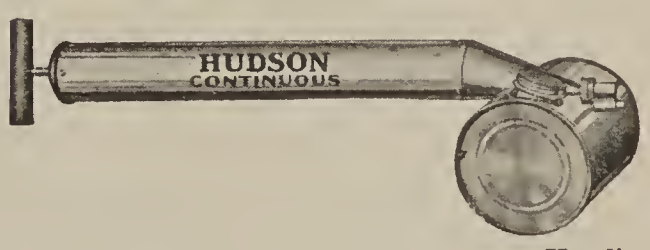
No. 110 BF—Copper Tank. Price $11.00, F. O. B. Phoenix.



No. 437—HUDSON CAPITAL SPRAYER—Combines the advantages of a compressed air sprayer and the easy operation of the ordinary continuous type. Automatic shut-off valve, controlled by a touch of the finger, permits instant starting and stopping of the spray. Capacity approximately three quarts. Shipping weight 5 pounds. **Price, $2.50, F. O. B. Phoenix.**



No. 452—HUDSON MISTY SPRAYER—A universal favorite for use about the house, yard, garden, poultry house, etc. Sturdy appearance and neatly constructed. Galvanized tank. Capacity 1 quart. Shipping weight 3 pounds. **Price each, 50c, F. O. B. Phoenix.**



No. 432—CONTINUOUS SPRAYER — Handles all solutions which are sediment free, such as disinfectants, deodorants, insecticides, etc. Produces a very finely divided, continuous spray without spitting or streaming. Fitted with double nozzle to spray ahead or up. Capacity 1 quart. Shipping weight 3 pounds. **Price each, 85c, F. O. B. Phoenix.**

Hudson Weed Burner

$16.50 Complete—F. O. B. Phoenix

USES!

Killing annual and perennial weeds and grass.
Burning weeds along irrigation and drainage ditches.
Burning back fires to control forest and field fires.
Disinfecting dog kennels, poultry houses—rabbit hutches, etc.
Melting ice and snow, and thawing water pipes.
Burning weeds on railroad right-of-ways.
Heating for light blacksmithing work.
Heating water tanks and feed cookers.

FEATURES!

Tanks tested at 90-100 lbs. pressure.

Convenient funnel top. Seams securely riveted and sweat soldered.

Balanced carrying handle.

60 lb. air pressure gauge mounted on handle.

Coil welded to base to insure positive alignment.

Burns kerosene, or 34-42 degree gravity distillate or stove oil.

Adjustable web carrying strap.

Fuel Consumption.....about 1 gal. per hour
Flame Temperature.....2000° F.
Flame Spread.....about 12 inches

For Best Results Use Liefgreen Seeds

PLANTING CHART

Kind of Vegetable	Seeds or Roots Required for 100 Feet of Drill	One Acre	Distances for Plants to Stand			Depth of Planting	Ready for Use After Planting —About
			Rows Apart		Plants Apart in Rows		
			Horse Cultivation	Hand Cultivation			
Asparagus—Seed	1 ounce	10 lbs.	30 to 36 in.	1 to 2 ft.	3 in.	1 in.	2 years
Asparagus Roots	60 to 80 roots	1,000 in field	3 to 5 ft.	12 to 24 in.	15 to 20 in.	3 to 5 in.	1 year
Beans, Dwarf	1¼ lbs.	80 to 125 lbs.	30 to 36 in.	18 to 24 in.	2 in.	1 to 3 in.	42 to 75 days
Beans, Pole	½ lb.	40 lbs.	3 to 4 ft.	3 to 4 ft.	12 in.	1 to 3 in.	72 to 90 days
Beets	2 ounces	6 lbs.	28 to 36 in.	12 to 18 in.	2 in.	1 in.	45 to 60 days
Brussels Sprouts	3 pkts.	2 ounces	30 to 36 in.	24 to 30 in.	16 to 24 in.	½ in.	100 to 120 days
Cabbage—Early	3 pkts.	½ lb.	30 to 36 in.	24 to 30 in.	12 to 18 in.	½ in.	90 to 110 days
Cabbage—Late	3 pkts.	½ lb.	30 to 40 in.	24 to 36 in.	16 to 24 in.	½ in.	110 to 120 days
Carrot	1 ounce	4 lbs.	30 to 36 in.	18 to 24 in.	2 in.	½ in.	55 to 80 days
Cauliflower	3 pkts.	2 ounces	30 to 36 in.	24 to 30 in.	14 to 18 in.	½ in.	120 to 150 days
Collards	3 pkts.	¼ lb.	30 to 36 in.	24 to 30 in.	14 to 18 in.	½ in.	100 to 120 days
Corn—Sweet	½ lb.	10 lbs.	36 to 42 in.		18 in.	1 in.	55 to 90 days
Cress, Water	4 pkts.		Broadcast.	10 to 36 in.		Under water	60 to 70 days
Cucumber	½ ounce	2 lbs.	4 to 6 ft.	4 to 6 ft.	4 every 3 ft	1 in.	50 to 70 days
Egg Plant	2 pkts.	¼ lb.	30 to 36 in.	24 to 30 in.	18 in.	½ in.	125 to 140 days
Endive	1 ounce	2 lbs.	30 in.	18 in.	12 in.	½ in.	100 days
Garlic—Sets	70 plants	300 lbs.	30 in.		6 in.		5 to 6 months
Horse Radish	70 roots		30 to 40 in.	24 to 30 in.	20 in.	3 to 4 in.	1 year
Kale, or Borecole	3 pkts.	1 lb.	30 to 36 in.	18 to 24 in.	18 in.	½ in.	55 to 60 days
Kohl-rabi	3 pkts.	1 lb.	30 to 36 in.	18 to 24 in.	6 in.	½ in.	55 to 70 days
Leek	½ ounce	4 lbs.	30 to 36 in.	14 to 20 in.	4 in.	½ in.	120 to 150 days
Lettuce	½ ounce	2 lbs.	30 in.	12 to 18 in.	6 in.	½ in.	70 to 90 days
Muskmelon	½ ounce	2 lbs.	6 to 8 ft.	6 to 18 ft.	4 every 4 ft.	1 in.	85 to 150 days
Watermelon	1 ounce	3 lbs.	8 to 12 ft.	8 to 12 ft.	4 every 6 ft	1 in.	100 to 130 days
Mustard	3 pkts.	1 lb.	30 to 36 in.	12 to 18 ft.	4 or 5 to ft.	¼ in.	60 to 90 days
New Zealand Spinach	1 ounce	8 lbs.	36 in.	24 to 36 in.	12 in.	1 to 2 in.	60 to 100 days
Okra	2 ounces	8 lbs.	4 to 5 ft.	3 to 4 ft.	24 in.	1 in.	90 to 140 days
Onion—Seed	1 ounce	3 lbs.	24 to 36 in.	12 to 18 in.	2 in.	½ in.	125 to 150 days
Onion—Sets	1 qt. of Sets	250 lbs.	24 to 36 in.	12 to 18 in.	4 or 5 to ft.	1 in.	100 days
Parsley	3 pkts.	3 lbs.	24 to 36 in.	12 to 18 in.	3 in.	⅛ in.	65 to 90 days
Parsnip	½ ounce	3 lbs.	30 to 46 in.	18 to 24 in.	2 in.	½ in.	130 days
Peas	1 lb.	60 lbs.	3 to 4 ft.	20 to 36 in.	1 in.	1 in.	45 to 75 days
Pepper	2 pkts.	2 ounces	30 to 46 in.	18 to 24 in.	15 in.	½ in.	130 to 150 days
Potatoes—Irish	5 lbs.	16 bu.	30 to 36 in.	24 to 36 in.	14 in.	4 in.	90 to 150 days
Potatoes—Sweet	3 lbs. (or 75 slips)	12,000 plants	3 to 5 ft.	3 to 5 ft.	14 in.	3 in.	150 days
Pumpkin	½ ounce	4 lbs.	8 to 12 ft.	8 to 12 ft.	4 every 6 ft	1 in.	75 to 90 days
Radish	1 ounce	10 lbs.	24 to 36 in.	12 to 18 in.	1 in.	½ in.	20 to 75 days
Rhubarb—Seeds	½ ounce		36 in.	30 to 36 in.	2 in.	½ to 1 in.	3 years
Rhubarb—Roots	33 roots		3 to 5 ft.	3 to 5 ft.	3 in.	2 to 3 in.	1 year
Rutabaga	3 pkts.	2 lbs.	30 to 36 in.	18 to 24 in.	6 in.	½ to 1 in.	90 days
Salsify	1 ounce	8 lbs.	30 to 36 in.	18 to 24 in.	2 in.	½ in.	150 days
Spinach	1 ounce	20 lbs.	30 to 36 in.	12 to 18 in.	2 in.	1 in.	45 days is min.
Squash—Summer	½ ounce	4 lbs.	3 to 4 ft.	3 to 4 ft.	4 every 4 ft	1 in.	65 to 70 days
Tomato	2 pkts.	1½ ounces	3 to 5 ft.	3 to 4 ft.	3 every 4 ft.	½ in.	125 to 150 days
Turnip	1 ounce	1 lb., sown broadcast 3 lbs.	24 to 36 in.	18 to 24 in.	2 in.	¼ in.	45 to 90 days

NUMBER OF PLANTS TO AN ACRE

SET AT REGULAR DISTANCE APART

RULE—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.

Distance Apart	No. Trees or Plants per Acre	Distance Apart	No. Trees or Plants per Acre	Distance Apart	No. Trees or Plants per Acre	Distance Apart	No. Trees or Plants per Acre	Distance Apart	No. Trees or Plants per Acre	Distance Apart	No. Trees or Plants per Acre
3 x4 in.	522,720	3 x1 ft.	14,520	4½x4½ ft.	2,150	6x 7 ft.	1,031	11 x11 ft.	360	19x19 ft.	120
4 x4 in.	392,040	3 x2 ft.	7,260	5 x1 ft.	18,712	6x 8 ft.	907	12 x12 ft.	302	20x20 ft.	108
6 x6 in.	174,240	3 x3 ft.	4,840	5 x2 ft.	4,356	6x 9 ft.	806	14 x14 ft.	222	25x25 ft.	69
1 x1 ft.	43,560	3½x3½ ft.	3,555	5 x3 ft.	2,904	6x10 ft.	726	15 x15 ft.	193	30x30 ft.	48
1½x1½ ft.	19,360	4 x1 ft.	10, 890	5 x4 ft.	2,178	7x 7 ft.	888	16 x16 ft.	170	33x33 ft.	40
2 x1 ft.	21,780	4 x2 ft.	5,445	5 x5 ft.	1,742	8x 8 ft.	680	16½x16½ ft.	160	40x40 ft.	27
2 x2 ft.	10,890	4 x3 ft.	3,630	5½x5½ ft.	1,440	9x 9 ft.	537	17 x17 ft.	150	50x50 ft.	17
2½x2½ ft.	6,960	4 x4 ft.	2,722	6 x6 ft.	1,200	10x10 ft.	435	18 x18 ft.	134	60x60 ft.	12

Liefgreen's Monthly Planting Guide

FOR THE SALT RIVER VALLEY AND SIMILAR CLIMATES

For the colder sections of Arizona the time of planting should be determined by weather conditions. In Northern Arizona and in the higher altitudes most of the varieties listed here should be planted in the Spring, after all danger of frost.

January Planting List

VEGETABLE SEEDS—Asparagus, Beets, Cabbage Plants, Carrots, Cauliflower Plants, Collards, Endive, Kale, Kohlrabi, Lettuce, Mustard, Onion Seed, Onion Sets, Parsley, Parsnips, Peas, Potatoes, Radishes, Rhubarb Roots, Spinach, Turnips, Strawberry Plants.

FLOWER SEEDS—African Daisy, Bachelor Buttons, Calendula, Calliopsis, Candytuft, Carnation, Centaurea, Chrysanthemum, Cosmos, Coreopsis, Double Daisy, Gaillardia, Gypsophila, Hollyhock, Larkspur, Linaria, Linum, Moon Vine, Mignonette, Nemophilla, Nigella, Pansy, Petunia, Phlox, Pinks, Poppies, Salpiglossis, Shasta Daisy, Scabiosa, Stocks, Snapdragon, Sweet Alyssum, Sweet Peas, Virginia Stocks, Verbena, Venidium Fastusom, Wall Flower.

BULBS — Amaryllis, Canna, Calla Lily, Chinese Lily, Crocus, Dafrodils, Freesias, Gladiolus, Jonquils, Hyacinths, Oxalis, Paper White Narcissus, Tulips, Ranunculus, Tuberoses.

LAWN SEEDS—Blue Grass, Rye Grass, White Dutch Clover.

FIELD SEEDS — Alfalfa, Barley, Oats, Rye, Wheat, Sweet Clover.

February Planting List

VEGETABLE SEEDS—Asparagus Roots, Beets, Cabbage Plants, Carrots, Collards, Cress, Endive, Kale, Kohlrabi, Lettuce, Mustard, Okra, Onion Sets, Parsley, Parsnips, Peas, Peppers in Hot Beds, Irish Potatoes, Sweet Potatoes, Tubers in Beds, Radish, Salsify, Squash, Tomatoes, Turnips.

VEGETABLE PLANTS—Artichoke, Egg Plant, Pepper, Rhubarb, Tomato in the warmest sections.

FLOWER SEEDS—Asters, African Daisy, Bachelor Button, Balsam, Calendula, Carnation, Candytuft, Calliopsis, Centaurea, Chrysanthemum, Coreopsis, Cosmos, Cockscomb, Evening Primrose, Four-o'clock, Gaillardia, Gypsophila, Gerbera, Geum, Hollyhocks, Helichrysum, Kochia, Lantana, Larkspur, Linaria, Lobella, Marigold, Moon Vine, Morning Glory, Nemophilia, Nigella, Nasturtium. Other Vine Seeds, Pansy, Petunia, Pinks, Scabiosa, Salpiglossis, Scarlet Flax, Shasta Daisy, Statice, Snapdragon, Sweet Alyssum, Sweet Peas, Sweet Sultan, Tithonia Speciosa, Virginia Stocks, Verbena, Venidium Fastusom, Wall Flower.

BULBS — Amaryllis, Caladium, Canna, Calla Lily, Chinese Lily, Gladiolus, Madeira Vine, Ranunculus, Tuberoses, Queen's Wreath.

LAWN SEEDS — Bermuda, Blue, Rye, White Dutch Clover.

FIELD SEEDS — Alfalfa, Barley, Oats, Sweet Clover, Wheat. Set out Fruit Trees, Rose Bushes and Shrubbery.

March Planting List

VEGETABLE SEEDS—Asparagus Roots, Beans, Beets, Carrots, Collards, Corn, Cress, Cucumbers, Egg Plant, Endive, Kale, Kohlrabi, Leek, Lettuce, Melons, Mustard, Okra, Onion Sets, Peas, Pepper, Peanuts, Irish Potatoes, Sweet Potatoes, Pumpkin, Radish, Salsify, Spinach, Squash, Tomato Seed.

VEGETABLE PLANTS—Artichoke, Egg Plant, Pepper, and Tomato.

FLOWER SEEDS—All Vine Seeds, Balsam, Chrysanthemum, Cockscomb, Cosmos, Four-o'clocks, Gerbera, Geum, Gaillardia, Gomphrenia, Helichrysum, Hollyhock, Kochia, Larkspur, Lantana, Marigold, Morning Glory, Nasturtium, Petunia, Portulaca, Salpigiossis, Scarlet Flax, Sweet Alyssum, Tithonia Speciosa, Verbena, Zinnia, Venidium, Fastusom, Wall Flower.

BULBS — Canna, Caladium, Calla Lily, Gladiolus, Madeira Vine, Tuberoses, Queen's Wreath.

LAWN SEEDS—Bermuda Grass.

FIELD SEEDS — Alfalfa, Sweet Clover. Set out Fruit Trees, Rose Bushes, and Shrubbery.

April Planting List

VEGETABLE SEEDS—Asparagus Roots, Beans, Beets, Celery, Corn Cucumber, Egg Plant, Endive, Kale, Kohlrabi, Leek, Melons, Okra, Peanuts, Irish Potatoes in high altitudes, Sweet Potatoes, Pumpkin, Radish, Squash.

VEGETABLE PLANTS—Artichoke, Egg Plant, Pepper, Rhubarb, Tomato.

FLOWER SEEDS — African Marigold, Cosmos, Gaillardia, Gerbera, Geum, Hollyhocks, Morning Glory, All Vine Seeds, Portulaca, Zinnia, Tithonia Speciosa.

LAWN SEEDS—Bermuda Grass.

FIELD SEEDS—Corn, Cowpeas, Feterita, Kaffir Corn, Millet, Milo Maize, Hegari, Sorghum, Sudan Grass, Bermuda Grass.

May and June Planting List

VEGETABLE SEEDS—Beets, Kale, Melons, Peanuts, Pumpkin, Sweet Potato Plants, Squash.

FLOWER SEEDS — African Marigold, Cosmos, Morning Glory, Nicotiana, Portulaca, Tithonia Speciosa, Vine Seed, Zinnia.

FIELD SEEDS—Cowpeas, Feterita, Kaffir Corn, Millet, Milo Maize, Hegari, Sorghums, Sudan Grass, Bermuda Grass for lawn and pasture.

July Planting List

VEGETABLE SEEDS—Brussels Sprouts, Cabbage Seed and Cauliflower Seed in shaded bed, Casaba, Corn, Peanuts, Pumpkin, Squash.

FLOWER SEEDS — Cosmos, Morning Glory, Portulaca, Tithonia Speciosa, Vines, Zinnia.

FIELD SEEDS—Bermuda Grass, Corn, Cowpeas, Feterita, Kaffir Corn, Millet, Milo Maize, Pink Beans, Sorghums, Sudan Grass.

August Planting List

VEGETABLE SEEDS — Beans, Beets, Cabbage, Carrots, Cauliflower, Corn, Cucumber, Kale, Peas, Pumpkin, Squash, Turnips.

FLOWER SEEDS—Cosmos, Nasturtium, Phlox, Portulaca, Tithonia Speciosa, Virginia Stocks, Zinnia.

FIELD SEEDS — Bermuda Grass, Corn, Cowpeas, Millet, Pink Beans to August 10, Sudan Grass.

September and October Planting List

VEGETABLE SEEDS—Beets, Cabbage, Carrots, Cauliflower, Collards, Cress, Endive, Garlic Sets, Herbs, Kale, Kohlrabi, Leek, Lettuce, Mustard, Onion Seed, Onion Sets, Parsley, Parsnips, Peas, Radish, Salsify, Spinach, Turnips.

VEGETABLE PLANTS — Cabbage and Cauliflower.

FLOWER SEEDS—African Daisy, Bachelor Button, Calendula, Candytuft, Carnation, Calliopsis, Centaurea, Clarkia, Columbine, Coreopsis, Delphinium, Daisies, Globe Amaranth, Gaillardia, Gypsophila, Hollyhocks, Larkspur, Linaria, Mignonette, Moon Vine, Nemophilia, Nicotiana, Nigella, Pansy, Petunia, Phlox, Pinks, Poppies, Scabiosa, Snapdragons, Stocks, Sweet Alyssum, Sweet Peas, Sweet William, Verbena, Virginia Stocks, Venidium Fastusom, Geum.

BULBS — Anemone, Daffodils, Chinese Sacred Lily, Freesias, Galanthus, Iris, Jonquils, Narcissus, Oxalis, Paper Whites, Soleil D'Or (Yellow Paper Whites), Muscarl, Ranunculus.

LAWN SEEDS — Bermuda Grass, Blue Grass, Rye Grass, White Clover, Poa Trevialis, Bent Grass, Red Top.

FIELD SEEDS — Alfalfa, Barley, Oats, Winter Rye, Wheat.

November and December Planting List

VEGETABLE SEEDS—Beets, Cabbage, Carrots, Cauliflower, Endive, Garlic Sets, Kale, Lettuce, Mustard, Onion Seed, Onion Sets, Parsley, Parsnip, Peas, Radish, Spinach, Turnips.

VEGETABLE PLANTS — Cabbage and Cauliflower.

FLOWER SEEDS—African Daisy, Calendula, Candytuft, Carnation, Callopsis, Centaurea, Clarkia, Columbine, Corcopsis, Delphinium, Daisies, Geum, Globe Amaranth, Gaillardia, Gypsophila, Hollyhock, Larkspur, Linaria, Mignonette, Moon Vne, Nemophilia, Nicotiana, Nigella, Pansy, Petunia, Phlox, Pinks, Poppies, Scabiosa, Snapdragons, Stocks, Sweet Peas, Sweet William, Verbena, Virginia Stocks, Venidium Fastusom.

LAWN SEEDS—Blue Grass, Rye Grass, White Clover, Poa Trevialis, Bent Grass, Red Top.

BULBS—Amaryllis, Anemone, Calla Lily, Chinese Lily, Soleil D'Or (Yellow Chinese Lily), Daffodils, Freesias, Galanthus, Gladiolus, Hyacinths, Dutch Iris, Jonquils, Muscarl, Oxalis, Paper White Narcissus, Ranunculus, Tulips.

FIELD SEEDS — Alfalfa, Barley, Oats, Winter Rye, Wheat.

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